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Military Health Service System:

Non-User and User Perceptions and Evaluations

by

Richard J. Orend and Richard D. Rosenblatt

HUMAN RESOURCES RESEARCH ORGANIZATION 300 North Washington Street • Alexandria, Virginia 22314

June 1977

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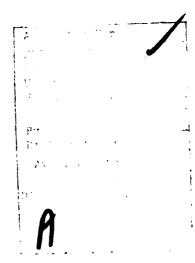


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SUMMARY

objective to the exact objection of this methods were originally specifical of (i) to call the the pare not of Mass cligible beneficial few who do not all the MRSS; (2) to detain is why they do not use the MRSS; (3) to citie the percent of PESS childben who have health insurance compareble to MMM: () to detectine how and vhy they acquire this health insurence enverge; (5) to decertine the relationship between non-uncof MiSS and E. The insurance coverage; (6) to determine the type of healt's immurance case to a (corporate reise, basic and major medical, CHAPTUS supplies ont. 1, etc.) held by unerround non-uners of MBS; and (7) to estimate dental utilization rates of and derial costs to beneficiaries. These objectives were divided into tive general to de which are described below. Each took to decime the respect to one of the questions. I were, the (all , a presented been representant and difference those described to the court of the format of Borb. These clony is reflect incorporate for a horizon by the about of the first the study does address each are not con and has real superior Millie Stems in the scope of the questions as solvers are not every to relieve useful analysis.

Task 1 (Che, for 1992 of the Report): In this enabled the excent of MHoS use is described in the appreciate for each less ficially character for each user of the enemation y close to be of the drop per osmel, dependent of certive days per one hardlied per surely dependents of retired per to the first period of retired per to the factor of active days personal. The mass of the appropriate care users, CPT 3.68 mere, there

who use beck again. I define where in the system. I shake denotes a tive enables of a time of the constant within both treatment and California samples of with a for the constant and the plan.

Tasks 2 cml 3 (Chapter 101E of the Report): These tasks are directed toward decembring the client of receMaps in manner coverage and the reasons that beneficiaries have such coverage. Comparability of the outside programs with the MBSS and the "basis" for the outside coverage are determined from family records. MBSS usage patterns for those families with outside programs and for families with different coverage bases are also described in this section. These analyses are meant to provide an indication of the reasons beneficiaries have for using outside systems.

Task 4 (Chapter through the Payer No. 1) be established in a former product of this back were started free the content of a Charles of the Payer relt (2) a constant former of all throws a distribution of a Charles of the Payer relt (2) a constant free partition of all throws a distribution. Fresh of these analyses was perfected for each user two and beneficiary closes. Thus, it was possible to determine but not there is a labeled core, come loss of various aspects of military and a believe to the late core, and the use of playing a extender to perfect we be a seasily, was perceived in each proper.

The comparison of the time of many transfer in the relation of male provided from the comparison of the regular value of the regular transfer of the regular value of the regular transfer of the regu

Task 5 (Chapter (Lin of the Report): Thin chapter describes the use and cost of dental services by each leneliciary class. The analysis also controls for various services costs is and desographic characteristics. The results provided described escretion of the pattern of destal service usage and cost servers been the large groups and other individual characteristics.

Data

The data used in this study considers a 1973-74 rangle of military beneficiaries in Nath in C II amia and a nettricted area in No. ... The sangle is a probability morph, and therefore, is representative of the population of beneficiaries living in these areas. There were 5790 family interviews and a total of 16,00% individual subjects discussed in the nurvey. Surveying was conducted in waves over a few ementh period using a very complex interview prestocal. Many of the reported elements of this curvey were based upon the observations of the interviews and this may partially explain some of the data processing difficulties which were reconstant cooling the results.

The methodology chapter describes, in detail, the variables selected for analysis and the procedures used to develop the "constructed" variables. That theroughness is in part due to the stand of preferences? resent preparation. It is in equal part due to the fact that important descriptors of benficiary and user characteristics and behaviors and, in a number of instances, based on multiple inferences and not on direct account at a Responsible persons who may use the findings of this tody in policy and pre-one planets, such be in a position to evaluate the criteria employed is variable construction and decide whether the ensuing data analysis truly reflects the phenomena of interest. The difficulties encountered in designing data analyses maximally responsive to the research objectives stem from a persistant lack of complete documentation for the data tape and from irregularities in the tape contents.

MHSS General Usage Pattern

A total of 16,093 beneficiary respondents provided information on their use of the medical services in the twelve month period immediately preceding the MHCS survey. Approximately one-half of the respondents used only direct care services. This number amounted to almost 60% of those who actually used health care during the twelve months prior to the survey. Thus, the direct care system constitutes by far the largest single service source. CHAMPUS users constitute slightly less than 11% of total users, while civilian only and civilian plus direct care are more than 26% of total users. This means that the potential for CMMMCS use is task higher than in currently being formaded. If, for chargie, all of the CMMMCS and Civilian plus bisect users were to charge to CMMMCS, the decrease to charge the present them it was.

The general usage pattern data described above are clarified when examined by beneficiary class. Large differences are found in the usage patterns of each beneficiary group. In general, the farther a beneficiary group is away from direct contact with Active Duty military, the less likely is contact with the direct health care system and the greater is the likelihood for using only civilian health care. Thus, Active Duty dependents are most likely to use direct care and survivors least likely to use that system. Civilian service usage, on the other hand, is highest among survivor grups. CHAMPUS usage is remarkably similar among all groups (except Active Duty personnel who are not allowed to use CHAMPUS). This is especially true when two usage patterns, CHAMPUS Only and Direct Care and CHAMPUS are combined. Excluding Active Duty personnel the range is from 9.8%, for Retired Military to 15.1% for Survivors of Retirees.

Prevalence of Non-MHSS Health Programs

The analysis for Objective I reveals that 25.5% of all families participating in the survey have at least one non-MHSS health insurance plan. Retired and survivor families are the beneficiary classes where the highest proportion of outside plans are held. Active duty families, as might be expected, are least likely to have outside plans. This is probably the result of greater usage of direct care services and a lower incidence of easily obtainable outside sources of such policies—particularly outside jobs.

Most prominant among reasons for obtaining outside insurance is the fact that it was "free or automatic" (45.5%), probably as a consequence of work or other organizational membership. The next two most cited reasons were reflections of discriptional with available 1998 alternatives. They were "more benefits decired" (25.6%) and "discount of pertian with military" (6.). Other reasons does as struct a variety of individual consecute and perceptions of future events, but most are quite rand' in the in endomology.

The distribution harves be disclary above a revealer one interesting varianties in the peacent pattern. The "error or auto disc" reads ranges from a high of 50.% area, Active may valid place to to 10.8 among Survivors of Retire 1 Military. The office the file the office in from having a member on Active Pary, the creater in the life the office it made look elsewhere for adequate instance, at the minute and the respectants. Creater benefits are, with one exception, the most likely reason for pursuing other policies among those holding "comparable" policies. Among Kaiser members dissatisfaction (17.5%) follows free/automatic as the most popular reason for holding an alternate policy. The exception is a substantial group (27.4%) of Survivors of Active Duty military who perceive themselves as ineligible for adequate MISS care. A number of Survivors of Retired also had previous policies (13.9%) of some type.

In numerary, this section provides some interesting clues about the use of alternative comparable feaths care programs. Concrally, the appearance of these programs is attributable to the numeratic action of jobs rather than a conscious either to that a improved program. This finding is true for all family uses types. Perhaps were important in the fact that so few respondents have such programs at all, less than 6%, the level of dismatisfaction with MHES, at less to the despect the some such programs at all, however, that these figures surparize the good health of the system. The number seeking outside policies may be attenuated by the probabilities cost.

Perceptions of General Health Care Services

The lack of substantial differences in the perception of health care services by different user groups and different beneficiary groups is the major finding of the section. A complementary finding is that most respondents are generally satisfied with the level of medical service they have received. Some of the particular problem areas (relatively) are the use of multiple doctors and the amount of red tape necessary in some systems. These problems are associated with the use of Direct Care systems and the use of CHAMPUS. In general, the organization of the health care systems is a somewhat greater cause of dissatisfaction than personal courtesy of medical personnel, but neither problem appears serious.

Comparison of Military and Civilian Health Care Systems

While 28 of 40 test items show the military and civilian services to be equally perceived and four more show the military to be somewhat more highly regarded (these were cost, physicians, emergency care, and to a degree, facilities), there are still eight areas in which they are poorly perceived. Of particular importance here is the question of convenience items which have traditionally been the nemesis of the military system. Also of importance are a perceived lack of concern by doctors and discontinuity of care which may be more the fault of the military rotation system that of the MHSS itself.

while most of the perceptions of the civilian vs. military health care systems are relatively constant over user type and here (iriary class, one exception is noteworthy. It is that the Active pary and Dependent beneficiary class is more likely to enderse the quality of civilian physicians than military physicians. This is convery to a trend for all other identified groups to favor military physicians. This group exhibits the same anti-rilitary propensity on the quantion of doctor's concern, again representing a slight trend reversal. These specific instances signal a rape where trend among the Active buty and Dependent respondents to be at less than not drive and sometimes more negative toward cilitary health care services than any other group.

Another interesting outcome of this analysis is the failure of user type and, to a great extent, beneficiary class, to distinguish on the selection of military vs. civilian alternatives. Again, this could be a function of data toritarione, but on the basis of the t is available a further investigation into these instances is streagles indicated.

The brief exectation of attitudes toward (BC 1008 reverted that a number of factors play a relegion that rejection of that system, but that there of that constant and recipeling in every invalid the value of the constant and recipeling in the value value of the constant and recipeling in the value value of the constant and recipeling in the value value value of the constant and recipeling in the value val

outside decter and produce the last term of a control of the theory, fact of outside decter and produce the advance of the control of the con

The Acceptance of Physician Extenders

The most acceptable of the physician extender tasks was allowing an assistant to do preliminary questioning, medical history, blood pressure, etc. Ninety-five point seven percent (95.7%) were amenable to that idea. The second most acceptable task was allowing an assistant to stitch minor wounds (83.5° positive). Third most acceptable was allowing follow-up care after a physician had diagnosed the ailment and prescribed treatment (79.7°). Just below two-thirds of the respondents would allow doctors' assistants to give pre- or post-natal care (64.6°) and prescribe for minor illnesses (63.4°). However, a large gap exists between the final two itemse "lot a sistant give root rediction care" (36.8) approval) and "let am istant decline in the responding rhill rest a doctor" (76.3) approval).

There are few differences in the acceptance of physician extenders iv different target groups. Most noteworthy is a slight tendency for Active Duty and Retired personnel and their dependents to favor the use of physician extenders in all areas more than either Survivor group. However, although these results are statistically significant they are relatively small in magnitude.

Dental Service Utilization and Costs

In general, we also then their section show substantial differences in destal one is \mathbb{R}^{2} . Excellence character and certain differences in cost with benefits one of a controlled. These latter differences center around the use of the coars. Differences in deatal visits associated with peographic location, California and This is made a greater number of visits, are substantially refer by a larger level in introjected. These respondents with \mathbb{R}^{2}_{1} as increased by a visit the density more effect, office decays place and bless second for lattle difference in destal visits.

INTRODUCTION

Considerable speculation exists concerning the number of Military Health Services System (MHSS) eligible beneficiaries who do not use the MHSS, why they do not use the MHSS, and how they pay for their health care. Until recently no data existed by which to answer these questions. However, in 1973-1974, during the Military Health Care Study (MHCS), * MHSS beneficiaries in Northern California and a circumscribed area of Texas were interviewed on a variety of questions about their health and health insurance behavior. By examining various question combinations from the MHCS data, it has been possible to provide with moderate success answers to some of these questions.

Objectives: The overall objectives of this analysis were originally specified as: (1) to estimate the percent of MHSS eligible beneficiaries who do not use the MHSS; (2) to determine why they do not use the MHSS; (3) to estimate the percent of MHSS eligibles who have health insurance comparable to MHSS; (4) to determine how and why they acquire this health insurance coverage; (5) to determine the relationship between non-use of MHSS and health insurance coverage; (6) to determine the type of health insurance coverage (comprehensive, basic and major medical, CHAMPUS

^{*}Report of the Military Health Care Study, Department of Defense,

Department of Health, Education, and Wellare, and Office of Management
and Budget, Washington, D.C., U.S. Government Printing Office,

December, 1975.

supplemental, etc.) held by users and non-users of MHSS; and (7) to estimate dental utilization rates of and dental costs to beneficiaries. These objectives were divided into five general tasks which are described below. Each task is designed to respond to one or more of the questions. However, the tasks, as presented here, represent some modification from those described in the original Statement of Work. These changes reflect insurmountable shortcomings in the available data. The study does address each area of concern, but some major modifications in the scope of the questions asked were necessary to achieve useful analysis.

Task 1 (Chapter IIIA of the Report): In this analysis the extent of MHSS use is described in the aggregate for each beneficiary class and for each user class. Beneficiary classes include active duty personnel, dependents of active duty personnel, retired personnel, dependents of retired personnel, survivors of retirees, and survivors of active duty personnel. The user classes are direct care users, CHAMPUS users, those who use both systems, and those who use neither system. Each descriptive analysis examines user patterns within both the Texas and California samples as well as for the combined sample.

Tasks 2 and 3 (Chapter IIIB of the Report): These tasks are directed toward determining the extent of non-MHSS insurance coverage and the

^{*} A complete description of the data difficulties will be provided as part of Chapter 2, Methodology.

reasons that beneficiaries have such coverage. The absence of data on individual insurance records necessitated the completion of this task on the basis of family records. This means that analyses were based on family with at least one outside insurance policy and that the user type and beneficiary class of an individual must be inferred from data available on his family. Comparability of the outside programs with the MHSS and the "basis" for the outside coverage are determined from family records, also. MHSS usage patterns for those families with outside programs and for families with different coverage bases are also described in this section. These analyses are meant to provide an indication of the reasons beneficiaries have for using outside systems. Because of the absence of individual data, it was not possible to investigate all of the non-MHSS programs covering eligible beneficiaries. What is presented, however, is descriptive analyses which at least suggest the extent of outside coverage and reasons for that coverage.

Task 4 (Chapter IIIC of the Report): Descriptive analyses in response to this Task were divided into three areas: (1) satisfaction and dissatisfaction with various aspects of medical service in general; (2) a comparison of military and civilian health care; and (3) responses to the

[&]quot;"Comparability" of outside coverage with the MHSS occurs when the outside program provides at least some payment for medical and surgical costs for both inpatient and outpatient treatment.

"Basis" is defined as how and why "main subscribers" acquired the outside coverage.

acceptance of physician extenders. Each of these analyses was performed for each user type and beneficiary class. Thus, it was possible to determine how satisfaction with health care, comparison of various aspects of military and civilian health care, and the use of physician extenders to perform various services, was perceived in each group.

The evaluation of health care services includes several general categories such as convenience, quality of personnel, and service efficiency. The comparison of military and civilian health service is made on similar dimensions. All descriptive analyses were performed for both the general dimensions and individual items, although the more interesting results come from the dimensional analyses. Analysis of physician extender questions included an investigation of the extent to which items formed a unidimensional scale in an attempt to identify a threshold for the acceptable use of extenders and to see if that use was related to general MHSS usage patterns. In total, these results may be used to suggest how the MHSS could be improved to fill the medical needs of groups which are dissatisfied with current service.

Task 5 (Chapter IIID of the Report): This chapter describes the use and cost of dental services by each beneficiary class. The analysis also controls for various socio-economic and demographic characteristics. The results provide a detailed enumeration of the pattern of dental service usage and cost across beneficiary groups—and other individual characteristics.

The remainder of the Report will be presented in the following format:

(1) Methodology is discussed in the next chapter. The methodological discussion includes a description of the approach to data

analysis, a description of the survey used to collect data and its potential for generalization to the total population of beneficiary groups, the identification of basic variables used in the analysis and the development of new variables required to accomplish each task, and a discussion of data limitations which led to modifications in several of the original tasks.

(2) Results are discussed in four subsections which correspond to the tasks described above. Each analysis presents descriptions of relevant findings and data Tables to support the descriptions. Where appropriate, interpretations of the findings are presented. There are no overall study conclusions.

A. Approach

The major objectives of this project are descriptive in nature; thereforethe results of our analysis have been presented so as to maximize identification of important population and target group characteristics and differences (where they exist). This methodological objective is accomplished most effectively by using uncomplicated cross-tabulations and frequency distributions.* Thus, Task 1, the identification of beneficiaries who use the MHSS system by type of use, was accomplished by developing a user group code and presenting a frequency distribution of the number of individuals in each group. This analysis was repeated for each beneficiary class and for the Texas and Califormia subsamples. Task II, the description of alternative health program usage and its "basis," was accomplished by using similar techniques, but locause of data limitations, in considerably less detail. Families, rather than individuals, comprised the unit of analysis in this task. Each family having at least one outside insurance plan was examined to determine "how and why" they obtained these policies and results were presented as frequency tables. In addition, a comparison between MMSS users and non-user families was made to determine the impact of alternative policy holding on frequency of use. This comparison was made by cross-tabulating user type with alternative availability. A second level analysis involved comparing MUSS aware with basis for outside insurance possession.

^{*} The exception to this rule is the Cuttran Scale Analysis used on the Physician Extender questions.

The use of tamilies, rather than individuals, limits the ultimate usefulness of these analyses because it was not possible to identify which specific family member was covered by or used the policy and because the extent of coverage on other policies was unknown. However, the findings are suggestive of the range of possible outcomes and some of the reasons for obtaining outside coverage.

Task III, comparisons of satisfying and dissatisfying aspects of all health services, is conducted in a similar way. The unit of analysis is again the family, and the data are assumed to be valid interpretations of general family attitudes toward the various aspects of health service delivery systems. Fach of the three subtasks is executed by comparing beneficiary and usage categories to attitudes expressed on particular items and on thematic scales** which describe broader areas of medical service and the comparisons of the MMSS to civilian programs.

The final set of analyses, in Task IV, describe the use of dental care services and their cost. In this case it was possible to use individuals, not families, as the unit of analysis. The purpose of this task was to describe

^{*}The absence of individual data creates several problems which require specific elucidation. First, one family member (the specific respondent) is speaking for all other members of the family. This could create bias in the answers provided. The fact that analyses presented here is aggregate, i.e., does not require specific individual to spec fic response linkages, partially alleviates this problem, as does the probability that biases which do occur are mediated by randomness, i.e., number of cases where positive bias occurs is offset by a similar number where negative bias occurs. Second, the use of family data limits the degree to which the important predictive variable beneficiary class can be applied. Because of pecularities in the way the original data were coded and but on computer tape it is not possible to separate active duty lependents from their military sponsors or retired dependents from their retired military sponsors. Therefore, any differences between these groups, the military member and his dependents, are masked by the aggregation of the data.

^{\$%\$} These scales are based on those developed to 00400000 for discussing different aspects of medical survive deliver on term.

general dental care usage and costs, and to determine if these factors were related to an extensive set of potential predictor variables, such as beneficiary class, age, sex, etc. This analysis was accomplished by using basic cross-tabulation of first order relationships and of controlling for key to tential intervening variables to perform second order comparisons. For example, groups of Individuals falling into particular use X cost categories are then examined in terms of age, sex or other descriptive group differences. These analyses provide a detailed picture of dental care usage among the population described by the sample analyzed.

B. Sampling and Surveying

The data used in this study come from a 1973-74 sample of military beneficiaries in Northern California and a restricted area in Texas.* The sample is a probability sample, and therefore, is representative of the population of beneficiaries living in those areas. There were 5790 family interviews and a total of 16,093 individual subjects discussed in the sarvey. Surveying was conducted in waves over a four-month period using a very complex interview protocol. Many of the reported elements of this survey were based upon the observations of the interviewer and this may partially explain some of the data processing difficulties which were encountered in coding the results.

Among questions raised about these data was whether they represented the total population of military beneficiaries across the country. This question was examined by comparing the results on most items for each of the two geographic areas sampled. To the extent that the results agree it may be argued

^{*} Section F of the Report of the Military Health Care Study, Supplement: Detailed Findings, December, 1975, discusses the sampling procedure in detail.

that the total sample is representative. However, there are several important shortcomings in this approach. First, while results showed general agreement between the two State samples the number of subjects in the Texas sample was very small. Second, it is possible that since our area sample included only two cases, Northern California and part of Texas, that similarities occurred entirely by accident or that these areas were similar while others are not. These problems do not prove or disprove the issue, but they do make it difficult to draw a final conclusion.

C. Delineation of Task-Relevant Variables

The analyses reported in subsequent chapters of this report were conducted using data contained in a sponsor-provided magnetic tape. The data describe the results of interviews of Military Health Service System (MHSS) beneficiaries.

Three types of records are contained on the tape, each type addressing the health and health insurance behavior of MHSS beneficiaries from different perspectives. The key record deals with health care experience at the family level. Individual records describe the health care experience of each member of the family identified in the key record. An insurance record, available for about eight percent of the families interviewed, was designed to contain detailed information on a family's participation in non-MHSS health programs.

Data contained in these records were intended to provide answers to a range of research questions wider than that defined for the present study. Thus it was necessary to identify those data types suitable, in their original, unmodified form, to each of the objectives discussed earlier; we refer to these data types as "original variables." In addition the available data did not describe a number of demographic and behavioral characteristics (for both families and individuals) necessary to the present research requirements. Therever such

characteristics were not directly represented, they were constructed logically by means of systematic inferences drawn from the values of relevant original variables; interred characteristics of families and individuals are called "constructed variables."

The following sections of this chapter document the original and constructed variables pertinent to each research objective. Description of an original variable is straightforward, i.e., its name, response alternatives, record location and column location. Deriving the values of a constructed variable involved the joint evaluation of several original variables. In order to fully describe these procedures, a decision logic table is presented for each constructed variable. Such a table defines for the set of relevant original variables the vector of values which dictates the value to be taken by the constructed variable.

Tables II.1, II.2, II.3, and II.4 present a summary description of all variables used in the present study. Each table gives the name of a variable, the type (original or constructed), the record where found (original variables) or stored (constructed variables) and the column position. When stored, a constructed variable was always placed in the unused filler at the end of a family or individual record.

Examination of Tables II.1 through II.4 shows that several variables enter the analysis for more than one objective. For those variables, detailed documentation will occur only for the first of a live in which they are encountered.

Table 11.1 Variables Used in Task 1.

	Variables	Туре	Record	Position
1.	Individual MHSS User Type	Constructed	Individual	Col. 295
2.	Individual Beneficiary Class	Constructed	Individual	Col. 296
3.	Sampling Area	Original	Individual	Col. 1

Table II.2 Variables Used in Task 2

	Variable	Туре	Record	Position
1.	Family			
	Beneficiary Class	Constructed	Key	Col. 299
2.	Family MUSS			
	User Type	Constructed	Key	Col. 298
3.	Why non-MHSS			
	insurance	Original	Key	Col. 230-
	obtained			240
4.	How non-MHSS			
	insurance obtained	Original	Kov	Col. 79
	ODUATHEA			
5.	Coverage prov d			
	by non-MHSS Insurance	Original	Key	Col. 69-7
	Then tance.			
6.	Type of non-MHSS			
	insurance	Original	Fev	Col. 68
7.	Sampling Area	priginal	Key	Col. 1

Table 11.3 Variables Used in Task 3

-	Variable	Туре	Record	Position
1.	Family MHSS User Type	Constructed	Key	Col. 298
2.	Sampling Area	Original	Key	Col. 1
3.	Comparisons of Military and Civilian Health Care			
	a. Specific Features	Original	Key	Col. 113-152
	b. General Features	Constructed	Temporary	
	l) Range of Services			Sum of Col. 113-120
	2) Competence of Medical Personnel			Sum of Col. 121-126
	3) Quality of Facilities			Sum of Col. 127-128
	4) Human Relations			Sum of Col. 129-134
	5) System Organization			Sum of Col. 136-146
4.	Satisfaction with Features of Health Care Experienced Recently			
	a. Specific Features	Original	Key	Col. 14-28
	b. General Features1) System Organization	Constructed	Temporary	Sum of Col's 14-16 and 24-25
	2) Human Relations			Sum of Col. 17-22
5.	"Likes and Dislikes" Concernin, CHAMPUS	Original	Key	Col. 170-185
6.	Knowledge of CHAMPUS	Original	Key	Col. 11
7.	Reasons for not using CHAMPUS	Original	Key	Col. 156-169
8.	Acceptance of Physician Extenders	Original	Key	Col. 88-94

Table 11.4 Variable / Sed in lask .

	- Variable	vpe (vpe	ise core	Position
			• •	-
1.	Dental Costs	Origin ('n favidual	*
2.	Dental Visits	constructed	Individual	1
3.	Family Income	Constructed	individual	
4.	Family Composition	Constructed	Individual	ы. 198 - 199
5.	Age Group	Constructed	received to the	
6.	Individual Beneficiary (1)ss	constructed	estimid ac	1. 20
7.	Sex	or Lylinal	meditivis and a V	(
8.	Sampling Area	original	elivi (c)	v + 14

Objective 1: Determination of MHSS condition of 18th Cornett Larges who are aplicated not use the MHSS.

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Individual record: [1, 18-19] (Number of visits to military (N.D. or olings)	-6-10	26-10	99 an 99	Ø1-97	6, 40, 60	80 or 99	66 ac co
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WA sare only (6 in Col. 295 of indiv. rec.)						×	
So health care services used (7 in Col. 295 of indiv. rec.)							×

Table II.5: Devision Logic Table Describing Criteria for Determining 15.1001 on MHSS User Type.

and civilian health care facilities and who has made no use of CHAMPUS is typed as "direct and non-CHAMPUS civilian care." An individual making between one and 97 visits to a military facility and no visits to a civilian facility is typed as "direct care only." The remaining five categories are indicated on the lable.

Table 11.6 indicates that an individual's beneficiary class is inferred from a consideration of sampling area; person number (designating bead-of-house, spouse, child, etc.); relation to deceased military member; and year military member retired. Consider an individual whose sampling area value is one factive duty-California) or three (active duty-Texas); whose person number is 01 (sample person); and to whom the remaining two variables do not apply (9 and 90 respectively). This individual would be classified as an active duty member. Given the same information except that the person number is 02 or greater, the subject is classified as a dependent of an active duty member. The same pattern is completed for all other classifications and a total of six identifiable catevories are created. These categories are identified in the lett-band column of Table 11.6.

Table II.7 presents the third variable used in the analyses under objective 1. "Sampling Area" defines both the geographic location and the service status of an individual and his family. In addition to its use as a decision tactor for individual beneficiary class (cf. Table II.6). Sampling Area is used to divide the total sample so that the relation between user type and beneficiary class may be analyzed separately within each geographic region as well as over the full sample.

Table II.7 also indicates that Sampling Area is recorded in column 1 of the key record as well as the individual record; since a requirement of the

Individual record: (ol. 1 (Sampling Area)		l or 3	7 Je 5	2 or 4	2 or 4	2 or 4	
Individual record: Col. 8-9 (Person Number: Øl=simple person: Ø2=spouse, etc.)	S	į.	Ø.	.ø.1	.01	, ø,	
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Column	-	
Record	Individual, Key	
Response Alternatives and Codes	<pre># California: Active Duty 1 # California: Not Active Duty 2 Texas: Active Duty 3 # Texas: Not Active Duty 4</pre>	
विद्वित्ति को ।	(supplied Area and respondent status)	

Notice differential reders to retired manders, surplears of active differential manders.

Table 1.7; Teachfor of original Variable Esed in Task 1.

present study is to conduct analyses by georgraphic region as well as total sample, the repetition of Sampling Area in key records permits satisfaction of this requirement where the family is the unit of analysis.

Objective 2: Determination of: (a) MHSS eligible beneficiaries who have mos-MHSS health programs by type of program; (b) MHSS users and non-users who have non-MHSS health programs comparable to the MHSS.

Determination of how and why this coverage was obtained.

The analysis plan for objective 2 called for the use of the letalied information contained in the insurance records. Fewever, through examination of the data records it was determined that the variable values in these records were erroneous and would return meaningless or risheading analyses (see the subsequent section on documentation and data problems, for a rare complete discussion).

Since partial information on non-MUSS incurance pregrams is contained to the key records, the decision was made to analyze that data for the more 15 fted information that might be gained in relation to objective 2.

Two classes of variables were used in these analyses: D variables obaracterizing tamilies: and CD variables of an element feed by health programs and the bases for their acquisition. Tables The edge of the decision lock tables for the members of the first variable of a large feed beneficiary class and family from tops. The both theory of the decision for the categorization of a family depended on the emit a stockness to see that the categorization of a family depended on the emit a stockness to see that the categories. Thus according to table 11.8 period section are an interest and the family and the majorithms. The members are all in feeting a family and the end of the pendent at retired members, then the two cases of the active a stockness of the family difference between the cases of the section of the section.

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. Abl. 111-16 [5] [5] and help fable beseribing criteria for Determining Family vgist sementiciary class.

was not possible to separate active duty members from their dependents or retired military from their dependents. This creates some difficulties in insterpreting the results of the analysis because some differences between the military member and bis/her dependents would be anticipated.

Table II.9 presents a similar logic for determining family MHSS user type. Subsequent references to these categories will refer to Direct, not CHAMPUS as Direct Only and to CHAMPUS, not Direct as CHAMPUS Only. Other references will remain the same.

Insurance related variables are all of the original type. Table (1.10) shows distinct variables related to how and why the non-MISS insurance was obtained, the type of non-MISS insurance, and the extent of coverage for each program. The latter variable was used as the basis for identifying programs comparable to the coverage provided by the Military Health Service System.

<u>Objective 3:</u> Comparisons of satisfiers and dissatisfiers between MHSS users and non-users.

The constructed variable entering into the analysis for Objective 3 is family MHSS user type, defined and discussed in the section on Objective 2, above. Table II.II describes the original variables to be analyzed for this objective. These variables fall into three distinct groupings: (1) those dealing with features of recently experienced health care, generally; (2) those dealing with comparisons of various features of military and civilian health care, likes and dislikes concerning CHAMPUS, and reasons for not using CHAMPUS; and (3) acceptance of physician extenders (assistants).

the variables classified under "comparisons" of diffiant and civilian health care and under satisfaction with health care "zenerally" can be addressed individuable or in terms of intermediate groups defined by the original survey

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Table II.10: Description of Original Variables Used in Task 2

Variable(s)	Response Alternatives and Codes		Kecord	Column(s)
How Non-MHSS insurance obtained	Work or union Individual Military organization Fraternal organization Other organization Professional organization Does not apply Not ascertained	11 Key 33 Key 55 66 00	\$:	7.9
Why Non-MHSS insurance obtained: Free or automatic Income protection Had it before Future (not in service or incligible Four can't buy later More benefits desired Fear reduction in military benefits Dissatisfied with military Incligible Foo far from base	*Yentioned Not mentioned Don't know Does not apply No codable answer	1 Key Wey Wey Key Key Key Key Key Key Key K		0.000 0.000
Type of Yon-MBS insurance	Blue Plan (Blue Cross and/or Blue Shield bental only Kaiser CHAMPUS Supplement Other Student Health No insurance Not ascertained	1 Key 5 5 5 6 6 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0	<i>></i> .	63

 $^{*}_{Alternatives}$ the same for each variable.

(Continued)

Table II.10: Description of Original Variables Used in Task 2 (Continued)

Variable(s)	Response Alternatives and Codes	səpo) p	Record	Column(s)
Coverage provided by Non-MHSS insurance Accident/Illness	A	1	Key	69
	*Does not apply *Xot ascertained	1 2 0		
Flat sum/amount care	Flat sum Depends on amount care 2 Don't know	1 3	Kev:	0.0
Hespital/too ill to work (if flat sum payment)	Only in hospital Too ill to work Don't know	3 23 11	Key	7.1
Illness covered	Rare only All illness	1 2	Rey	7.2
Hospital cost paid (if all illness covered)	Yes No Don't know	3.5	Key.	73
Pay any part of surgery	Yes No Don't know	3 2 2 1	Key	7.4
Pay doctor bill other than surgery	Yes No Don't know	1 2 3	Ke.v	75

* Alternatives the same for each variable.

(Continued)

Table II.10: Description of Original Variables Used in Task 2 (Continued)

Variable(s)	Response Alternatives and Codes Record Column(s)	and Codes	Record	Column(s)
Coverage provided by Non-MHSS insurance (Cont.)				
Pay decior office call	ν.σ. 	1 2	Key	9.
	Den't know	3		
Major/master medical	Major medical only		Key.	7.7
	Part of basic plan Neither	2		
	Den't know	٠٦		

Table iI.11: Description of Original Variables Used in Lask 3

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#Sec. 74814 11.13 for description of response alternatives and codes.

..ole 11.11: Pescription of Original Variables Used in Table 3 (Continued)

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ditary vs. Civilian Cost		Ney	141
Military vs. Civilian Sense of Security		Rey	77-72
Military vs. diviliam Continuity of Care Military vs. diviliam Paticats Comeru		Kev	149
Attitude Toward		Kev	150
Military vs. Civilian Servening Process		Key	
Military vs. Civilian Preferential Treatment			1.7 1.7

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Table II.11: Description of Original Variables Used in Task 3 (Continued)

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THES AND DISTRIBL CONCERNING CHARPS	CHAMES Services depends CHAMES Services in Denefits CHAMES SERVICE CHAS on Aliability CHAMES Service Services CHAMES Incomplete Referentement	Preference for civilian Detects Scretce Consenience of Civilian Fiellities CHAMPIS Paperwork or Red Tape CHAMPIS line before Reliburation CHAMPIS Advantage When Out-of-Town	CHRYPTS Statem Organization Freedom of Choice CHAMPUS Providers Other Montages/Disadvantages of CHAMPUS Diserminatory Treatment of CHAMPUS Patients CHAMPUS Frees Military Dectors

* Alternative Acades apply to each variable.

Table II.11: Description of Original Variables Used in Task 3 (Continued)

(E) TOTAL	Sesponse Alexandres and Code Code Code Code Code Code Code Cod		(3) (3)
KNOALEDGE OF CHAMPUS	Have Used Know but Haven't Used 2 Heard About Never Heard About As ascertained	Key	11
STASONS FOR NOT USING CHAMPUS	*Mentioned Not Mentioned Active, No Dependents Boes not Apply No Answer	 . Key	156
Thre is limited Use Military Card Of Other Coverage Naven't Weeded it Other Reasons		Key Key Key Key Key	157 158 159 160
Of Incomplete Coverage of Red Tape Of Short Comings Of Cost of Inchigibility		Key Key Key Key	162 163 164 165
Didn't Frow of Eligibility Lack of Knowledge Other Reasons (Specific)		Key Key Key	167 168 169

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^{*} Pespense alternatives/codes apply to each.

Table [1.1]: Description of Original Variables Used in Task 3 (Continued)

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in tractor of there is the distinct one tunitive discount no term, a congruence a first a sand civilia "case of services"). The dimensions and taking a size ato treatrable care described in chapter III.c. The decision was made to an all reearly to the early earlies as well as their constituent valuables by transformable the variable values into Likery-type scales so that they might be summed to the arise dimension scores; Tables 41.12 and 41.13 describe the transformation stops for the "general" and "comparison" variables, respectively. "General" waringles as transferred into a 5-point scale running too "Completely aristical" to "st at all still tred." "Communison" variables are transferred into a second such recent that "Advantage of military" (a) to "dradyantage of matrices," (a). Concernent tabular references will be a Militar Better contocionism sector Class Trips are not seen that the agreement of some hard rapid energy of the operation of the and the constrained engineering "neat" is agreed the preparation may be at a . As recarded substanting directions, some energia at the adding a temperature values in in each through One must be enable to a projective some the scale. Common depending the mention set interest profits sweather.

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Fig. 11.161 (a) is later tagic labbe beautifur Family Income.

Individual record: Col. 57-58 (Age in years)	91-12	13-19	20-99	E] Se
Child (1 in Col. 297 of indiv. rec.)	*1			
Teen (2 in Gol. 297 of indiv. rec.)		×		
Adult (3 in Col. 297 of indiv. rec.)			×	
Not ascertained (\$ in Fol. 297 of indiv. rec.)				×

Decision Logic Table Describing Criteria for Determining an Individual's Age Category. jable il.17:

Individual record: Col. 8-9 (Person Number)	-ø1	.01	ØØ
Individual record: Col. 1 (Sampling Area)	2 or 4	1 or 3	
Diturming number of eligible persons (Gol. 11-12 of indiv. sec)	1	_	1
App number eligibles into Al. 293-299 of indiv. rec.	C1		;
Theract I from number of ILLibles and copy into Til. 298-299 of indiv. rec.		2	
Skip to next record	~	3	F-1
	1	4 . A . A . A . A . A . A . A . A . A .	日本 日本 日本 日本 日本 日本 日本 日本

Pecial a Logic Table Describing Criteria for Determining and Recording Family Composition (dufined as Dumber of Eligibles Excluding Active Duty Members)

must be used to indicate the appropriate actions and their order of execution. The result of this action is a value indicating the number of beneficiaries, from 1 to X.

D. Documentation and Data Problems

The previous sections describe in detail the variables selected for analysis and the procedures used to develop the "constructed" variables. That thoroughness is in part due to the standard of professional report preparation. It is in equal part due to the fact that important descriptors of benficiary and user characteristics and behaviors are, in a number of instances, based on multiple inferences and not on direct assessment. Responsible persons who may use the findings of this study in policy and program planning must be in a position to evaluate the criteria employed in variable construction and decide whether the ensuing data analysis truly reflects the phenomena of interest.

The difficulties encountered in designing data analyses miximally responsive to the research objectives stem from a persistant lack of complete documentation for the data tape and from irregularities in the tape contents. In the area of documentation, several problems occurred, in one of the rost critical, two types of "individual beneficiary"—Survivor of Active Duty member and Survivor of Settred member—eluded accurate enumeration for some time. It was eventually learned that in the definition of the "sampling area" variable contained in the file documentation was in error. Since sampling area was used in the assignment of individuals to a beneficiary class, the documentation error was reproduced in the analysis software.

In the comparison of satisfiers and dissatisfiers among MHSS users and non-users, several potentially useful variable sets had to be passed over due to ambiguous documentation or incomplete data. For example, forty-one questions

dealths with several aspects of health care were eliminated from consideration because a single column which indicated whether the respondent was discussing military or civilian experiences had not been coded. In other instances coding of health care service evaluation questions failed to discriminate the initial positive or negative position of the respondent making interpretation of results about particular problem areas impossible. Part of the problem resulted from the original questionnaire which required respondents who were favorable to MMSS to find "something groug" with the system and those who were unfavorable to find "something good" about the system. Responses were coded together with no means to determine whether the responses were something good by a negative respondent or something bad by a positive respondent.

The most significant data irregularity occurred in the case of the insurance records. These records were intended to provide detailed information on as many as five non-MBS health insurance plans per family. As part of the preliminary examination of these records a sample was printed out. It was found that within each sample record the fields describing plan features, persons covered, and reasons for plan acquisition were virtually identical for all plans to which the family "subscribed." Upon confirmation from the monsor that such data patterns should not occur, the entire file of insurance records was checked by computer program and found to exhibit the same anomalous mattern displayed by the first sample of records. Afterous to obtain documentation of the programs used to assemble the insurance record, were fruitless, rendering recovery for the error impossible. Thus the insurance record, had to be discar of in taxon of the limited insurance data contained to the key records. (the disadvantages of this situation were discussed above.)

The foregoing data and documentation problems notwithstanding, the authors believe that the variables is lested for the present study are appropriate to the research objectives. See so that its constructed variables described above

are reasonable estimates of their empirical counterparts, the survey sample:

CHAPLES III: RESPLES

Fach of the tear subsections described in the RESULIS will address a sparate tall. In III.A a general description of the overall usage of the 198 will be presented. In III.3 the extent of outside insurance coverage will be described and the "bases" for that coverage will be documented. Attitudes toward general health services, a comparison of civilian and military health care systems, and attitudes toward the use of physician extenders will be covered in III.C. The final subsection, III.D, will present results on dental care usage and costs, as well as an analysis of socio-economic and demographic predictors of usage patterns.

A. Milss General Usame Pattern

A total of 16,093 beneficiary respondents provided information on their use of the medical services in the tective nonth period immediately preceding the MHCS survey. Table iII.A.1 shows a breakdown of the basic pattern of that usage. Approximately one-half of the respondents used only direct care services. This number arounted to almost 60 of those who actually used health care during the twelve months prior to the sarve. How, the direct care existent constitutes by far the largest single service source. CHAPPUS users on attitute alightly less than 11° of total users. Calding the CHAMPUS only and pricet plus CHAMPUS rows in the Table), while civiling only and civilian plus direct care are more than 26° of total users. This means that the potential for CHAMPUS was is such higher than 18 carrent's being deranded. If, for example, all of the Civilian only and Civilian plus direct users were to chance to CHAMPUS, the demand would have been about 140° greater than it was.

Causeon, that eligible beneficialies do not use the CHAMPUS system will be examined in section 111.C.)

Table Lat. A. I: General Usage of MHSS

	Total Sample	Health Care Users
Direct Care Only	50,7% (X-8166)	59.1%
Direct Care + CHAMPUS	7.7 (731)	5.5
CHAMPUS Only	4.6 (712)	3.4
Direct Care + Other Civilian	11,7	13.6
Civilian Only	11.1	13.0
VA Only	2.6 (120)	5.0
No Health Care in Past 42 Months	11.6 (2318)	-
Fotal X	(16093)	(13745)

northern California and Texas, is presented in Table 111.A.2. The proportions of individuals in each sampling area who use various combinations of services are very similar. The most important differences occur in the use of Direct Care Only and Civil an Only categories. Direct Care is less prominent and Civilian three more prominent for the lexas sample. While these differences are statistically significant they are small in magnitude and may be attributable more to sampling differences (see discussion of using by beneficiary class below) than to real population delicronees. Whether the degree of imilarity between the two camples constitutes are argument for the generalizability of the total sample to the entire population of beneficiaries is problematic. It

population, but on more pecific issues, to be described later, there is greater difficulty attributable to more specific differences.

Table 191.A.P: General Usage of MBSS by Sampling Area

	Northern California	Texas
Direct Care Only	51.1"	47,6
Direct Care and CHAMPUS	1.7	1,0
CHAMPUS Only	1.5	5.4
Direct Care and Other Civilian	11.9	9.7
Civilian Only	10.0	13.1
VA Only	2.5	3.0
No Health Care in Past 12 Months	11.1	13.8
Total N	11375	17.8

The general usage pattern data described above are clarified when egamined by beneficiary class in Tables III.A.3 and III.A.4. Table III.A.3 presents combined sample results. The Table shows the Targe differences found in the usage patterns of each beneficiary group. In general, the Table demonstrates that the farther a beneficiary group is away from direct lengths fare of Active Duty military, the less likely is contact with the direct bealth same of terminant the greater is the likelihood for using only civilian health same. Howe, Active Duty dependents are most likely to use direct care and survivors least likely to use that system. Civilian service usage, on the other hand, in biguest among survivor groups.

CHAMPUS usage is remarkably similar among all groups except Action.

Duty military personnel. This is especially true when two usage patterns.

CHAMPUS Only and Direct Care and CHAMPUS are combined. Excluding Active Dury personnel the range is from 9.8. for Retired Military to 15.1 for biryiver of Retirees. This marrow range suggests the possibility of some particularly

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narrow factors in each large CHAMPUs whose, although these factor have not evident here.

In examining differences between beneficiary classes it is evident the Retired Personne and their dependents represent the most homozene a beneficiary groups. Their usage patterns vary only slightly. Survivors of Retired Personnel also snow a similar pattern although they differ slightly in Direct Care and Civilian Only usage. These three groups, however, wight be represented as having substantially the same pattern. Active Duty personnel and their dependents, while being most errented toward the use of Direct care, are significantly different in their use of civilian care. Possible explanations for the group differences will be discussed in 111.3, on alternative terms of insurance, and 111.0, on attitudes.

The California and less assign patterns on these factors are seem in facts III.A.4. The California and less assign patterns are more notable for their strip crity than for their differences. Although a few simulaternic differences are present, the samples may be said to exhibit the same essential usage patterns and, therefore, the next in that estated for the term's simple. The farriest difference in total usage tracked [II.A.2) was clear two becomes due to after a contract to the slightly higher proportion of Active patt personnel in the less scatter CO.31 to 17.30, whose Active Patv per cone; are not a likely to see direct tare than any other group. Higher Direct Cars usage is cliffied in at home clarky classes in California.

However, the seneral pattern of an illustry does not necessarily establish the generalization of the rotate sensity to the control population of benefits that are some of the control parameters of the control and were such as the control and the control

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will describe them in a sheariffered a more ample sine permits, although some of the pestade and secure will be in more difficulties text because of the recurrent solution patterns.

The most important findings of this section are than birect Care made carries with distance from an active military person and that the use of small() worlds little across beneficiary mount. These findings will be examined in terms of alternative insurance availability and bases, and attimes of word beautiful to achieve a virial behavior as a strong and attimes of word.

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- The specific objectives of this section are:
- (i) instituate the number and pareent of MBSS elevable benefic area, we beneficiary chass and in a precate, the have non-DBSC of the programs in type of ordered; determine how estably the accommutation mass and afred this coverage.
- the notificate the amover and benedit of MMMs mades and necessors to have non-MMMS nearith programs command he to the MMMs; determine how one way these programs were, a pair is

Meeting these objectives requires the calm is of various ones fine at some participants. Chemoticians of each and NASS sector topel, the air craft training about the pre-grame respection, use cross of plan and demandarility to the MBSS.

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The provided cardine, arrest arith. In the insurance reserves necessitate, the provided families, the action of the recent of the cardines, the action of the cardines well-or most be the families rather than a constitution, the action of the cardines well-or most be the families and the reflect of the following analysis to confuse the difference of a single plan. Tindings based on ramific must be reserved and the following analysis to confuse the following analysis to confuse the following analysis analysis were individual that your times differ in health experience even within the same times. Additionally, the data-imposed limit of one policy per that by restricts the seneralizability of tindines concerning the non-Mass health plans identified here.*

1. Provalence of November 1988 health Trourage

paring in the survey and at least one non-PrSS leafth insurance plans.

Table 199.8.1 shows that refired and jurgiver families are the beneficiary classes where the highest presention of outside plans are beld. Active duty families, as right be expected, are least likely to have satisfied plans. This is probably the result of greater usage of direct care provides and a lower incidence of easily obtainable outside source of such policies—particularly outside we's.

Sample data are durable nerv State subsamples (throopenshied in table 111.6.7) and the results indicate little difference between the two areas despite the relatively stall number of cases of Texas.

Caste 11%.5.2 sweet that the even respect to held and identities of memory programs are the "Blue 19 m" of the even follow size identities of $\mathrm{CMAMP}^{\mathrm{res}}$. Supplies in the DL m (19.4) and 17.4 , respect to to

[#] $\Delta 1$ so, there was no semi-stable with the selections of accordance to expect our discussed to either x^2 than x^2 and x^2 or x^2 .

Table III.a.t: Camily Benticiary Class by Lumber and Percent of Families Subscribing to Non-MHSS Health Insurance Plans

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	total :	Sample	Calife	rnia	Les	ias
Family Beneficiary Class						
Active Putv	346	12.1	317	12.6		÷
Retired	an?	40	823	40.5	Ţq	šń.,)
Survivors of Active Duty	103	33.4	S2	\$2.2		50.41
Survivors of Retired	91	10.3	88	39.5	1	(fn).fv
	14.42	s, <u>-</u>	1310	gan is servanismi gerier ar ar ar	132	

table III.8.2: Percent of Families Subscribing to Different Aon-1888 Wedit Laborators fouls

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Tarii Les	(234)	6.00 (2.00 (2.00)	8.02	- 1976 1970 1970	51 (7.38)		361
	13.9	(52)	6.6	(233)	19.5 (649)	8.0	Signal Signal Signal
	(80)	0.0	0.0	7.0	(68)	(1)	

but specific identification of these other plans is not provided in the data. The results are similar in California and Texas, despite a slight divergence for fexas families the are serewhat more likely to have "other" plans (67.4) and less likely to use CHAMPUS Supplementary plans (11.4). The Kamer plans, which is used by 8.9° of the california sample, is available only in that water.

The distribution of plan types across family beneficiary class is similar to that found for Camilies generally. Table III.B.3 shows the same order of incidence in each of the beneficiary classes. In addition, the magnitude of the occurrance in each class is approximately the same with the exception of Retired Military and Dependents, who are semewhat less likely to use the "Size Flan" and somewhat more likely to use the Charles Supplementary plan. The distribution of plan types for family beneficiary classes in the California sample (Table III.B.4) is virtually identical to that found for the total sample. The Texas sample (table III.B.5) is somewhat less similar, but the differences may well be due to sampling fluctuations occurring as a result of the small numbers of policies in that region.

Table III.8.6 presents the sources of non-MRS insurance for each family beneficiary class. "Fork or thion" (60.2%, and "individual Subscription" (13.9%) are the two nost treatestly occurries sources. The Table shows that among Active Duty and Retired families, work or union occurs most effect (66.2%) and 64.8%, respectively). This is probably a result of earsile exployment in dependents and the fack of tell model to sursue such outside policies. Survivors, on the other hand, do not have the direct military connection and as even likely to sock outside in upsizes. I take despite the set that their benefits may not be reasonably different from the other benefits are that their lands of the factive Duty Survivors have obtained their channel radiability. The active Duty Survivors have obtained their channel radiability, arrevers of Period Sulture with outside policies are about

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equally likely to have individually obtained policies or policies obtained through military organizations (probably veterans organizations).

Results for the California sample naturally reflect the total sample results. Data for lemma are somewhat different but the W in three of the four Beneficiary Classes is too small to permit reliable analysis.

The bottom row of Table 111.8.7 shows the distribution of reasons for obtaining outside insurance. Most prominant among them is the fact that it was "free or automatic" (40.5), probably as a consequence of work or other organizational membership. The next two most cited reasons were reflections of dissatisfaction with available MHSS alternatives. They were "more benefits desired" (20.6) and "dissatisfaction with military" (6.). Other reasons decensive a variety of individual concerns and perceptions of future events, but most are quite small in their endorsament.

ations in the general pattern. The "tree or automatic" reach range tree a high of 55.4% among Active buty and Dependents to 16.% among Active buty. Thus, the "farther" a family is from haring a moment of Active buty, the areater is the likelihood that it has been already a moment of endough insurance, at least in the finds of the respections. A creater rescribe is, with one exception, the nost likely reason to be acceptable, a creater rescribe exception is a substantial group (27.4%) of furvious of Active and fitting who perceive themselves as inclinible for adequate MBSS care. A author of furvious of Bettired also had previous reflects (13.9%) of an type. When a type a figure of many is the various beneficiary of a contract an percentical on the part of many is the various beneficiary of a contract and care a percentical on the part of many is the various beneficiary of a contract and care.

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appropriate in this analysis was to identify the compound of incurated appropriate form than 1400 identified by the previous section. To this purpose a set of questions about the extent of cutside insurance or nare was examined and the results of that examination was used to identify a fittle of the resolution who had comparable preprints. In order to be considered are parable the program had to include: (1) accident and illness concruet (2) to the sum or amount of care dollar coverage; (3) hospital contributed in the work coverage; (4) all illnesses; (5) hospital contributed to all supports raid; (7) as for all other than surgery paid; (8) office cells paid; and (9) major (waster modical account of base of my flow were 218 of his formulation of the first of my formulation of the paid; which will describe the right of the first of the work of the way the illness with alternative or norms.

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the first present of brooks and or comparable insurance expense in the figure two. But the exception of CHATTE users, who are sementar all out the proportion of out the soft the 1.20%, all from the about the except particle of out idepolar holice of not a to 50% of the have been expected that Direct Care there is old be much been than after enough became on an about of an each increase, the manner of the first the police was efficient map explain that are early to be surable matter to be surable matter.

In Tables 11:10.10 and 191.8.11 it is evident that the most common sours of energible insurance and Kaiser programs is through work or unions (20.42) an 93.51 respectively). There is also a relatively stable distribution of this incidence of outside work 20 lbis interpretation as supported by the results presulted in Table 1991. The interpretation is supported by the results presulted in Table 1991. The interpretation are supported by the commonwell a worker incidence of autside and a 20.25 by the commonwell a worker breakful of Table 1991. The interpretation of the appearance as a result of presulted in Table 1991. The holds of the finished of a produce obtained their medical problem holders and also set the holds of the produce o

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Table III.3.11: How Kaiser Insurance was Obtained by Fundly User Type

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edki lasi kime	Work or Univa	.lvilaal	Military Stalkation	Fraternal Organization	Ather Organization	Professional Organization
**************************************	93.5%	(3)	1	i i		1
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V SWE WENT	195.3	i	1	1	,	1
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Table III.3.13: Why Kaiser Insurance was Obtained by Family User Type

	* 600 *		1001	8 € 5 () 2 ()	135
Other Sensing	7.3%			5.6	9.6
Too Far From	7.3%	1	14.3	Ţ8	0.7
Not E118- 1519	(7)		!	6.8	7.7
Dissat- isfled Nith Wiltery	12.73	1	1	17.5	17.5
Fear Reduced Military Benefits	1	-	1	2.4 (1)	8.5
More Ben-fits Decired	5.5%	;	14.3	6.8 (5)	, (6)
Fear Can't Bey Later	1.57	1	l i		1.8
Paratro		1	(1)	!	8.1
Had 1t Sefere	3.3.	[-	(9)	7. (F
- 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	900	1	;	3.0	871
Free or Aster	(32)	1	C		100
7. A 1.1 E 2. C 1. A 1.1 E 2.	25 AV F	HAMPIS P. D.	9.1490 4.490 11.50 11.50	[14] in with No.	

unspecified reasons (Table 311.5.42). Emong Eafser policy holders it is civillan medical care users that deviate the most where only 44.6% obtained automatic or free coverage. Among the total Kaiser participants 17.5% are dissatisfied with military care (Table 311.5.13). These groups represent a very small properties of total MISS users, however.

Another substantial group indicates they have adopted alternative policies because they are too for from a military base (8.2%) (Table 110.8.12). It is interesting to note that the user groups who contribute most extensively to this category are not CHAMPUS users. Apparently these families believed that outside coverage is the only reasonable alternative to direct care.

The most important non-automatic reason for alternative insurance is the desire for greater benefits among comparable policy holders (table 111.8.1.). It is unclear from the question whether the improvement is over direct care or PERMIS alternatives. For CHAMPUS users the implication is clear, but for techns it is less clear. A comparison of the reasons for obtaining these "comparable" policies and the reasons for any policy (Table 111.8.7) provides some interesting clues about insurance policy choices among these respondent families. The group will organish policies is somewhat more likely Cob.8's to list "Tree or automatic" as a result for having the policy than the total group (45.5.). The comparable group is also somewhat less likely to cite faults with the MBSS than the total group, the eds. \$1.67. These figures suggest that it may be special coverages which are being count this conjecture. Among Paison participants general disaction to make the conjecture. Among Paison participants general disaction the total production of those not receiving intendatic coverage.

[#] Cincolfo sanda or a factor to determine the first because of the following section of the same t and t are the factor t

In summary, this section provides one interesting class about the use of alternative communities health care programs. Generally, the appearance of these programs is afficientable to the automatic action of jobs rather than a conscious effort to find an improved program. This finding is true for all family user types. Perhaps more important is the fact that so few respondents have such programs at all, less than 6%. The level of dissatisfaction with MHSS, at least to the degree the alternatives are songat, is apparently relatively low. It may be degree the alternatives are songat, is apparently relatively the good health of the system. The number seeking outside policies have be attenuated by the problibitive cost and, as analysis in Section C of this Chapter will indicate, there are many areas of dissatisfaction with the MBSS.

THE CONTRACTOR SAME LOS AND DISTRIBUTED

Diseased on the three different types of emertions in divided into three must be used on the three different types of emertions in an evedicular must be examined. In the first part anestrous which require respondents to evaluate "varial aspects of medical service" will be examined. These questions require a general evaluation of 10 medical services received during the problem. The two cases twelve months. For each service differences between user types and exect-curv classes are described. Part 2 describes respondent perceptions of differences between civilian and military health care services in all differences between civilian and military health care services in all differences, personnel, facilities, haven relations, and so be serve in the example of the analysis, which is performed using both user type and meneticism class as moderators. Specific problems, where analyses, in ealthing, questions on the use of CHAMPTS are examined in an attempt to describe reasons for failure to use that system.

Part 3 describes respondent reaction to the idea of the praceed extenders. This analysis is again performed using user also and be affective type as moderators. Also, an investigation of the consultation of the consultation of the extender questions using the Guttmann scales to our recommendations as the consultation. Although the increase to the transmission of a sufficient consultation of the consultation of the account of a sufficient consultation.

due approprieta un instrucción alle esta de la telefonación de la descripción approprieta de la constanción de la consta

discriminate differences in attitude toward reducal services and the constitution of civilin and military health care than was user type (the primary predictor mariable). On the questions involving physician extenders it was seneticiany class which resulted in the only similicant intergroup differences.

From a rethodological perpoective the analysis performed was restricted by the form of the available data. Examination of attitude questions was performed using the lives of the unit of analysis. This means that one ramaly secber answered attitude questions for all other family members. that was the only torm in which these data are available. The extent to waren this result that responses were biased by the perceptions of the particular respondent is, of course, unknown. But there seems little reason to doubt that such biases exist. For purposes of this study it may be assumed that biases "average out" over the whole sample. The use of angregated categories helps reduce the impact of such biases also. However, some of the possibilities should be considered before final conclusions are drawn. Propully, the rost important of these is the possibility that active outy personnel and even retired active large personnel have have a mere factor-Wite properties of a contract and redical services than do their dependents. This our tauter als rewart talse impression of the Cameral Hiro with which raditary health care services are more feed. One indication of this is the tendency for surviver priems, with no active duty response to, to be tested to appropriate care as notice and all enterories of corvine there exists range where action mercological against been a velocity. He amaled to the mercologic this concurred in the fill count granter (the confirmation per white to separate a time dity dependent, and retired decreases them to an active duty and retried ordering the committee of the committee of the committee of the committee of in an werrable.

Examination of differences between the California and Texas samples produced some differences, but the small lexas sample reduced the possibility of examining these differences is greater detail. In general, the difference which did occur seems more likely to be the result of unequal distributions on other factors than "State" differences. However, it was not possible to pursue the plausible explanations to their logical conclusions.

One final comment is in order before beginning the detailed description of results. The explanatory power of "user type" and "beneficiary clase," although often statistically significant, is relatively small in magnitude. There are obviously other factors which explain differences in the relative satisfaction with medical services. Unfortunately, the scope of this project did not permit the investigation of some of these factors for which data are available. It is possible, also, that the MHCS survey did not include what would be some of the most important explanatory factors.

C.1 Satisfaction with Various Medical Services

Satisfaction with medical services is presented in two basis forms, as an item by item list and as appreciated evaluations formed by summing the scores on two sets of items with a similar substantive content. The presentation of these satisfaction results is cross-tabulated on four directions: (a) by total sample; (b) by State subsample; (c) by user type; and (d) by beneficiary class. Analysis of user type and beneficiary class controlling for State were performed it o, and will be discussed but not presented here. The order of results presentation is as tollows: (A) then satisfaction for the entire analysis (B) item satisfaction by frate; (C) item satisfaction by marrive; (B) against the satisfaction by frate; (C) item satisfaction by marrive; (D) against the satisfaction by satisfaction be sain type; (a) as create as a satisfaction, by beneficiary class; and (d) seconded from activities to the contact at a satisfaction of an income and (d)

a. Item patisfaction for the Whole Sample: Table III.C.1 presents results for level of satisfaction on each of 15 different aspects of general medical service as it was perceived by family unit respondents in terms of services they received during the 12 months prior to being interviewed. The answers refer to all medical services regardless of whether they were military or civil a supplied. Dissatisfaction was greatest in the areas of "waiting on the phone to get an appointment" (item 2) and having "one doctor for Call) health problems" (item 13). These were the only two areas where the "not at all satisfied" response category exceeded 10%. Two sub-questions received a large number of dissatisfaction responses.

These were "time on the phone in an <u>emergency</u>" (a sub-question of waiting on the phone to get an appointment), which included only those who had indicated they were dispatisfied on the general question (item 3) and "courtesy by those who make an appointment when <u>urgent</u>" (a sub-question of courtesy of those making appointments), which included responses only from those who were dispatisfied on the general question (item 7). These two questions conditiated the only areas where matintaction was less than 50.2 those areas showing the least dispatisfication were mentions involving courtesy of doctors, nurses, and receptionists (items 5, 5 and 8).

In general, if the two sub-questions are excluded, the level of satisfaction with redical service exceeds 60° in all but one case (one doctor for health problems--item 13--is 38.9). The (tem which may be judged to be of prestest importance, doctor's care (item 50) is perceived as satisfactory by more than 35° of the respondents. The area in which the prestest difficulty exists, based on these questions, is emergency cituation handling.

^{*} The higher level of negative responses on these two Steen could be partially attributable to the fact that appreciation of already expressed a negative response on the semi-seneral related question.

Table THEO.1

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. Next on phonor ((20.3) (20.3)	(1210)	0.7 (38.5	(21.24)	(1376)	5731
S. i e et plane i	(294)	24.7 (435)	(216)	3)5.9 (337)		
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b. Item datisfaction — First : Table - HH.C.1 and HH.G.3 provide an item is item provided by the solid train of lexas subsamples. Prior to impact in supplied the interest of should be noted that one to the difference in supplied to see an applied to the california subsample assembly for almost 90 of the total sample a very substantial difference in the lex ample would be required to make the California subsample significantly friterent from the total sample. In other words, the California respondenters, torial later to administrate and subsample significant varies to all later to administrate. The same as the total sample. The example specifical sample. For this reason subsequent analyses of State differences will concentrate on texas, where the only significant differences from the total sample will occur.

In general, the lexas respondents are somewhat fore in the inclusive satisfied with reducal services than are California respondents for the first two columns of this HI.C.2 and HI.C.3). In the one instance where this does not occure—"one dester for California problems, then instance where the failure of the pattern is one to a first incidence of "here." equal 1.7" to pouse a rateer than a rate of extractions. See, let if the contract of the call the contract of the contrac

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Satisfiction by type of sorvice (California)

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l 	9.41 (478)	(713)).? ()\$9)	41.97 (2987)	20.9° (1521)	50,8588
2. Note a plane to get	10.2 (320)	21.17	4.9° (249)	38.5 (1961)	25.27 (1282)	5084
3. r a plane la	10.77	(387)	11.0	(7.9) (760)		1585
in the second se	$\frac{2.9}{(147)}$	8.55 (435)	(11)	35.83 (18.4)	32.5° (2672)	5.350
	1.9	7.7 (392)	1.87 (192)	38.9	(2428)	7,447,
The second secon	4.77 (213)	13.27	2.27 (-13)	(2.15 o)	(1800)	Ser 20
1. The state of	10.77	31.5	16.5			sa wir t
er versioner og det er ver	(1.77)	(3.13)	(50)	(17.1 (1396)	37.0 (1015)	,
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distriction by two of Pervice (Texas)

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	8	10.0 (103)	23.7	(225)	(137)	, , Ath 1
gg and pit	(0.7	(134)	20.77 (1.33)	33.! (333)	(94)	
	(30)	(.9)		39. C		
and the second s	() () ()	(7.2)	(**)	30.81	(310)	
The second section of the section of the section of the second section of the section of t	(19)	51,97 (154)	(4))	1	(4)(1)	3
green to at).) (3)	(2)	(5%)	$\begin{pmatrix} 1 & 43.1 \\ 1 & (277) \end{pmatrix}$	22.27 	
	17,0	(2.3)	22.	20.2		
	6.25)	(03)		(1994)	77.6° (243)	0.0
and the second s	1.0	12.5	(30)	$\frac{1}{1} = \frac{n\alpha_{+}}{\alpha_{-}} \cdot \frac{1}{\alpha_{+}}$	(342)	1 n.7
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e de la secono	1	1	1 5.7	1.5	Reserved to the second	15.4
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				1 1	· · · · · · · · · · · · · · · · · · ·	٠.
			1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1			

c. Item Satisfaction by User Type: Tables III.C.4 through III.C.18 present results for each of the satisfaction items cross-tabulated by user class. The user classes are: (1) those who use direct military care only (47.17); (2) those who use CHAMPUS only (47); (3) those who use bot! direct care and ChAMPUS (7.97); and (4) those who use only civilian medical services (40.97).

restual description of these tables will be held to a minimum and will stress highlights and commonalities in the results. The reader randinspect the tables for detailed specific differences. To purther ease the burden of interpretation, results described will concentrate on dissatistiction. Satisfaction responses are generally the complement of dissatistation responses and it was felt the emphasis should be on problem areas which are highlighted by this focus. One additional methodological commons is in order. Given the size of the sample virtually all Tables exhibit a statistically significant. Therefore, these will not be presented.

Comerally, dissatisfaction levels are similar for all user types. At the very least, then vary forether across all items. There exceptions decoral they are of two separal types: (i) respondent using lirect care are more likely to be dissatisfied than those who do not use lirect care. On three instances; and (2) those using several two instances), the dissatisfied than these who do not use first tended to dissatisfied than these who do not use in the respective of the dissatisfied than these who do not use (CMP28) (two instances).

the three cases in which direct case work (both threat edications) of a read GRAMPUL cuterers are used here) as generally one in satisfies a rest. (1) wait on piness actors as in the a concentrate Clable 3(1, v. .);

(2) time it takes on phone to be appointment Clable (ii), v. .); and (ii) coin one doctor for health credite. Clable 10, v. 160, . So differences, according to large enemals to be a particle of the arms of a meaning most personal three enemals to be a particle of a large enemals.

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Table III.C.4: Satisfaction with Wait on Phone Before Asking for Appointment

		Level	Level of Satisfaction	1		
User Type	Not at all Satisfied	Not too Satisfied	No Observations	Generally Satisfied	Completely Satisfied	Total
Direct Care Only	10.4% (280)	15.8% (427)	3.9%	42.9% (1157)	27.0% (727)	2697
GEAMPUS Only	8.5% (20)	10.2%	9.3% (22)	33.1% (78)	39.0% (92)	236
Direct Care and CHAMPUS	12.1% (55)	11.9%	4.6% (21)	45.0%	26.3% (119)	453
Civilian Only: No Direct or CHANPUS	7.5% (175)	13.3% (311)	11.6% (273)	37.2% (873)	30.4% (713)	2345
Not Ascertained				100.0%		1

Table III.C.5: Satisfaction with Time it Takes on Phone to Get Appointment.

		Level	Level of Satisfaction			
∵ser Type	Not at all Satisfied	Not too Satisfied	No Observations	Generally Satisfied	Completely Satisfied	Total
Direct Care Only	11.5% (310)	22.4% (65.4)	3.7% (101)	40.9%	21.4% (578)	2696
CHAMPUS Only	7.2%	14.0% (33)	7.6% (18)	37.7% (89)	33.5% (79)	236
Direct Care and CHAMPUS	13.9% (63)	24.5%	2.9% (13)	39.5% (179)	19.2%	453
Civilian Only: No Direct or CHAMPUS	8.5% (199)	19.7% (462)	10.7% (250)	34.2% (802)	27.0% (632)	2345
Not Ascertained				100.0%		1
					Total	5731

Table III.C.6: Satisfaction with Time on Phone in an Emergency*

		Level of Satisfaction	isfaction		
User Typę	Not at all Satisfied	Not too Satisfied	No Observations	Satisfied	Total
Direct Care Only	17.5% (159)	21.7% (197)	10.4%	50.4% (458)	806
CHAMPUS Only	14.0%	24.0% (12)	10.0% (5)	52.0% (26)	50
Direct Care and CHAMPUS	16.7% (29)	29.9% (52)	11.5%	42.0%	174
Civilian Only: No Direct or CHAMPUS	15.2%	26.9% (175)	14.9%	43.0% (280)	651
				Total	1783

* Of those dissatisfied with time it takes to get an appointment, Table 3.5.

Table III.C.7: Satisfaction with Courtesy by Doctors

5736	Total					
-	193.07 (1)					Not Spertamed
2349	53.9% (1265)	33.67 (789)	.6 <i>k</i> (14)	5.67 (203)	3.38 (73)	Cimilian Only: So Direct or CHAMPUS
453	44.6% (202)	40.87 (185)	(0)	11.77	2.9 /13,	e Ar CHIVE As a CHIVE
236	56.8% (134)	29.77 (75)	(0)	10.6% (25)	3.0%	CHAMPUS 'n l'v
ر. د ا	51.47	37.77	.1% (3)	8.4% (226)	2.42 (64)	Direct Care Only
Fotal	Completely Salisfied	Generally Satisfied	Level of Satisfaction too No fied Observations	Level Not too Satisfied	Not at all Satisfied	edvī res

Table III.C.8: Satisfaction with Courtesy by Nurses.

		Leve1	Level of Satisfaction			
User Type	Not at all Satisfied	Not too Satisfied	No Observations	Generally Satisfied	Completely Satisfied	Total
Direct Care Only	2.2% (58)	8.6% (231)	2.2% (59)	40.3% (1086)	46.8% (1261)	2695
CHAMPUS Only	3.0%	6.4% (15)	3,4%	37,3% (88)	50.0% (118)	236
Direct Care and CHAMPUS	2.0%	12.1% (55)	1,5%	43.9% (199)	40.4% (183)	453
Civilian Only: No Direct or CHAMPUS	1,9%	6.6%	6.7% (158)	35.1% (823)	49.7% (1167)	2346
Not Ascertained		100%				1

Satisfaction with Courtesy by People who Make Appointments at Doctor's Office. Table III.C.9:

		Level	Level of Satisfaction			
User Type	Not at all Satisfied	Not too Satisfied	No Observations	Generally Satisfied	Completely Satisfied	Total
Direct Care Only	5.2%	13.8% (373)	1.5% (41)	45.5% (1225)	34.0% (916)	2694
CHAMPUS Only	6.4% (15)	12.3% (29)	1.3%	36.9% (87)	43.2% (102)	236
Direct Care and CHAMPUS	5.1% (23)	14.8% (67)	2.6% (12)	47.2% (214)	30.2% (137)	453
Civilian Only: No Direct or CHAMPUS	3.0% (71)	12.4% (281)	4.1% (95)	41.3%	39.3% (918)	2338
Not Ascertained				100.0%		1

Table III.C.10: Satisfaction with Courtesy by People who Make Appointments when Urgent *

* Of those dissatisfied with Courtesy by People who Make Appointments at Doctor's Office (Table)

Table III.C.11: Satisfaction with Courtesy by Receptionist

		Level	Level of Satisfaction	C		
User Type	Not at all Satisfied	Not too Satisfied	No Observation	Generally Satisifed	Completely Satisfied	Total
Direct Care Only	2.9% (78)	10.4% (281)	1.0%	48.9% (1320)	36.7% (991)	2698
CHAMPUS Only	3.0%	5.9%	1.7% (4)	42.5% (100)	47.0% (111)	236
Direct Care and CHAMPUS	3.8% (17)	8.2%	2.2% (10)	51. <i>7</i> % (234)	34.2% (155)	453
Civilian Only: No Direct or CHAMPUS	2.0% (43)	8.3% (194)	3.2% (74)	43.9% (1030)	42.7% (1001)	2347
Not Ascertained				100.0%		1

Table III.C.12: Satisfaction with Courtesy by Medical Staff

		Leve	Level of Satisfaction	uo		
User Type	Not at all Satisfied	Not too Satisfied	No Observation	Generally Satisfied	Completely Satisfied	Total
Direct Care Only	3.3% (90)	12.6% (341)	1,3% (36)	45.6% (1229)	37.1% (1001)	2697
CHAMPUS Only	4,3% (10)	7.3% (17)	3.0%	40°6% (95)	44.9% (105)	234
Direct Care and CHAMPUS	4.4%	1 3.7 % (62)	2.0% (9)	47.2% (214)	32.7° (148)	453
Civilian Only: No Direct or CHAMPUS	3.7% (86)	10.9%	3.9% (92)	42.4%	39.1% (918)	2345
Not Ascertained				100.0%		1

Table III.C.13: Satisfaction with Doctor's Care

		Leve	Level of Satisfaction	no		
User Type	Not at all Satisfied	Not too Satisfied	No Observation	Generally Satisfied	Completely Satisfied	Total
Direct Care Only	2.7% (72)	9.8% (264)	.1%	39.3% (1058)	48.2% (1297)	2693
CHAMPUS Only	4.7% (11)	7.6% (18)	(0) %0	38.6% (91)	49.2% (116)	236
Direct Care and CHAMPUS	3.1% (14)	15.3%	.4%	45.1% (204)	3 6.1 % (163)	452
Civilian Only: No Direct or CHAMPUS	3.5% (83)	1 0.7 % (250)	1.2%	34.0% (798)	50.5% (1185)	2345
Not Ascertained		100% (1)				1

Fable III.C.14; Satisfaction with Medical Care Day or Night

		Leve	Level of Satisfaction	uo		
User Type	Not at all Satisfied	Not too Satisfied	No Observation	Generally Satisfied	Completely Satisfied	Total
Direct Care Only	8.7% (234)	17.4% (469)	3.0% (81)	29.6% (796)	41.3%	2692
CHAMPUS Only	8.1% (19)	20.8%	6.4%	28.4%	36.4%	236
Direct Care and CHAMPUS	11.3% (51)	21.5%	2.9% (13)	33.4% (151)	31.0% (140)	452
Civilian Only: No Direct or CHAMPUS	8.6% (201)	18.5% (433)	6.9% (161)	28.0% (655)	38.0% (890)	2340
Sot Ascertained				100%		

Table III.C.15: Satisfaction with Seeing Various Doctors.

		Leve	Level of Satisfaction	on		
User Type	Not at all Satisfied	Not too Satisfied	No Observation	Generally Satisfied	Completely Satisfied	Total
Direct Care Only	7.8% (209)	16.6%	1.9% (50)	34.12 (917)	39.8% (1071)	2693
CHAMPUS Only	9.3%	14.4%	3.8%	29.7% (70)	42.87 (101)	236
Direct Care and CHAMPUS	10.6% (48)	22.3%	2.0%	35.8% (162)	29.2% (132)	452
Civilian Only: No Direct or CHAMPUS	6.57, (153)	15.3%	5.6%	31.9%	40.6% (951)	2340
Not Ascertained				100%		Ţ

Table III.C.16: Satisfaction with Seeing One Doctor for Health Problems.

		Leve	Level of Satisfaction	uc		
User Type	Not at all Satisfied	Not too Satisfied	No Observation	Generally Satisfied	Completely Satisfied	Total
Direct Care Only	19.2% (516)	22.7% (610)	2.5% (68)	26.2% (706)	29.4% (793)	2693
CHAMPUS Only	13.6% (32)	10.6% (25)	3.0%	22.9%	50.0% (118)	236
Direct Care and CHAMPUS	25.1% (113)	19.5% (83)	2.7% (12)	26.8% (121)	25.9% (117)	451
Civilian Onlv: No Direct or CHAMPUS	14.5% (340)	17.9% (419)	5.4%	25.8% (603)	36.4% (852)	2341
Not Ascertained		100%				1

Table III.C.17: Satisfaction with Amount of Red Tape

		Leve	Level of Satisfaction	uo		
User Type	Not at all Sacisfied	Not too Satisfied	No Observation	Generally Satisfied	Completely Satisfied	Total
Direct Care Only	8.9% (240)	15.7% (424)	.6% (16)	43.6% (1177)	31.1% (840)	2697
CHAMPUS Only	13.2%	23.8% (56)	1.7% (40)	37.0% (87)	24.3% (57)	235
Direct Care and CHAMPUS	12.6% (57)	24.8% (112)	(7) %6°	41.6% (188)	20.1%	452
Civilian Only: No Direct or CHAMPUS	10.1%	19.4 <i>%</i> (455)	2.5% (59)	37.7% (882)	30.3% (709)	2341
Not Ascertained	100% (1)					1
					Total	5726

Table III.C.18: Satisfaction with Type of Medical Service Covered

		Leve	Level of Satisfaction	u.		
User Type	Not at all Satisfied	Not too Satisfied	No Observation	Generally Satisfied	Completely Satisfied	Total
Direct Care Only	3.8% (103)	12.3% (332)	.3%	41.2% (1112)	42.3% (1142)	2697
CHAMPUS Only	10.7% (25)	19.7% (46)	2.1% (5)	40 . 6%	26.9% (63)	234
Direct Care and CHAMPUS	5.8% (26)	15.7% (71)	1.1%	52.3% (236)	25.1% (113)	451
Civilian Only: No Direct or CHAMPUS	3.2% (75)	8.4%	2.7% (64)	41.1% (963)	44.6% (1046)	2345 .
Not Ascertained			100% (1)			1

The two instances where CHAMPUS users (CHAMPUS only and direct care and CHAMPUS) are more likely to be dissatisfied are on (1) the amount of red tape (Table III.C.17); and (2) type of medical service covered (Table III.C.18). Thus, the problems in processing CHAMPUS claims and in the extent that CHAMPUS covers all types of medical services are problems for CHAMPUS users. Again, however, the satisfaction level does not fall to less than 60% of respondents approving in any group.*

^{*} We hesitate to put an interpretation on the degree to which 55% or 60% or 75% satisfaction levels represents satisfactory for MHSS policy makers. Thus, the numbers are presented as relative outcomes with no intent to imply a positive or negative ever attorn for the results. Beyond that, the results of this section, because is sudents are evaluating both military and civilian services, are even more difficult to interpret.

d. Aggregate Scale Satisfaction by User Type: Table III.C.19 and III.C.20 present results of the combination of five system organization variables and six human relations variables, respectively. The aggregate variables were created by summing the individual item results for each of the component variables. System organization is composed of (1) Wait on the phone before asking for appointment; (2) Time it takes on the phone to get appointment; (3) Time on phone in an emergency; (4) Medical care day or night; and (5) seeing various doctors. The range of individual scores is 1, completely satisfied, to 5, not at all satisfied. The aggregate range is 5 to 25. Categories were created by dividing the aggregate scores into quartiles. The human relations score was created using the same procedure over six variables, courtesy by doctors, nurses, people who make appointments, people who make appointments if urgent, receptionists, and other medical staff.

In both instances, system organization and human relations aggregate scores, the only difference among user groups is a slight tendency for the "Direct Care and CHAMPUS" group to express greater dissatisfaction than the other groups. The reason for this difference is unclear based on available data.

Analyses paralleling the individual item and aggregate analyses

described above were performed on the State subsamples also. The results

of these analyses provide no results which contradict what has been described.

Table III.C.19: Satisfaction with General System Organization.*

		Level	Level of Satisfaction	uo	
User Type	Generally Dissatisfied	Somewhat Dissatisfied	Somewhat Satisfied	Generally Satisfied	Total
Direct Care Only	8.7% (232)	28.2% (760)	45.6% (1230)	16.6% (474)	2696
CHAMPUS Only	10.1% (24)	28.9% (68)	43.2% (102)	17.9%	236
Direct Care and CHAMPUS	10.8% (49)	35.1% (159)	40.2% (182)	13.8% (63)	. 453
Civilian neither Direct or CHAMPUS	8.6% (202)	32.1% (752)	41.8% (983)	17.5% (412)	2349
Not Ascertained			100% (1)		1

* System Organization is an aggregate of five variables: (1) wait on phone before asking for appointment; (2) time it takes on phone to get appointment; (3) time on phone in an emergency; (4) medical care day or night; (5) seeing various doctors.

Table III.C.20: Satisfaction with Human Relations.*

ì

		Level	Level of Satisfaction	uc	
User Type	Generally Dissatisfied	Somewhat Dissatisfied	Somewhat Satisfied	Generally Satisfied	Total
Direct Care Only	1.9% (52)	19.5% (527)	50.8% (1370)	27.8% (749)	2698
CHAMPUS Only	4.2% (10)	14.8%	43.6%	37.3% (88)	236
Direct Care and CHAMPUS	2.2% (10)	23.8% (108)	50.8% (230)	23.2% (105)	453
Civilian neither Direct or CHAMPUS	2.3% (53)	17.7% (416)	49.7% (1167)	30.3% (713)	2349
Not Ascertained			100%		T

* Human Relations is an aggregate of six variables: (1) Courtesy by doctors; (2) Courtesy by nurses; (3) Courtesy by people who make appointment if urgent; (5) Courtesy by receptionist; and (6) Courtesy by medical staff.

5737

e. Aggregate Scale Satisfaction by Beneficiary Class: The absence of strong relationships between user type and satisfaction suggested the need to examine the question using other possible predictor variables. One which was available on a family unit basis and which seemed as though it could have an impact was beneficiary class. Beneficiary class is, essentially, the relationship between the beneficiarv and the service member. Using family unit data it was possible to construct a fourfold classification of beneficiary class: (1) Active duty and dependents; (2) retired military and dependents; (3) survivors of active duty military; and (4) survivors of retired military. This categorization lacks two category breakouts which were possible using individual data, viz., separating dependents of active duty military from the active members and separating dependents of retired military from the retired member. While this increased refinement would have been helpful, it is still possible to develop useful comparisons.*

Results of the aggregate analysis are presented in Tables III.C.21 and III.C.22. Both tables show a slight tendency for Active Duty and Dependents to express dissatisfaction than other groups. As before there is a pronounced tendency for greater dissatisfaction with system organizational factors than with human relations.

^{*} Results in IIID, on dental care, indicate a close relationship between retired military and their dependents in most areas. Similar results may apply here.

Table III.C.21: Beneficiary Class by Satisfaction with System Organization

	Total	2862	2252	308	227	98	5735
ation	Generally Satisfied	12.6% (360)	20.7%	30.1% (93)	26.8% (61)		Total
n System Organiz	Somewhat Satisfied	41.7% (1191)	46.6%	40.6% (125)	41.4% (94)		
Satisfaction with System Organization	Somewhat Dissatisfied	35.8% (1022)	25.1% (566)	22.4% (69)	25.6% (58)		
	Generally Dissatisfied	10.1% (289)	7.8% (174)	6.8% (21)	6.2%		
	Beneficiary Class	Active Duty and Dependents	Retired and Dependents	Survivors of Active Duty	Survivors of Retired	Not Ascertained	

Table III.C.22:: Beneficiary Class by Satisfaction with Human Relations Aspects of Medical Service

	Š	Satisfaction with Human Relations	Human Relations		
Beneficiary Class	Generally Dissatisfied	Somewhat Dissatisfied	Somewhat Satisfied	Generally Satisfied	Total
Active Duty and Dependents	3.2% (93)	26.9% (761)	53.7% (1538)	16.1% (461)	2863
Retired and Dependents	1.2%	11.1%	4 6.7 % (1052)	41.0% (924)	2253
Survivors of Active Duty	(0)	10.0% (31)	46.8% (144)	43.2% (133)	308
Survivors of Retired	.9% (2)	8,4% (19)	38.8% (88)	52.0% (118)	227
Not Ascertained					98
				Total	5737

f. Selected Item Satisfaction by Beneficiary Class: Four of the satisfaction items were not included in either of the aggregate scales. These include satisfaction with doctor's care, one doctor for health problems, amount of red tape, and type of medical service covered. The results of crosstabulations of each of these factors with beneficiary class are presented in Tables III.C.23, III.C.24, III.C.25, and III.C.26, respectively. The same tendency for the Active Duty and Dependents category to be more dissatisfied that existed on the aggregated items is reflected in these tables, except for satisfaction with Medical Service Covered (Table III.C.26), where the groups are substantially equal. The two most pronounced differences occur on Amount of Red Tape (Table III.C.25) and One Doctor for (All) Health Problems (Table III.C.24). In the former instance a total of 35% of the ACtive Duty and Dependents group expresses some dissatisfaction, while the highest proportion for the other groups is 22.7%. In the latter instance 49.2% of the Active Duty and Dependents group is dissatisfied with having to see more than one doctor, while no more than 26.2% of other groups shows similar dissatisfaction. The Active duty group is also the group which is the largest user of direct care. The revolving doctor system has been a notorious source of dissatisfaction in the military health service system for a long time. These results support the existance of that complaint.

Table III.C.23: Beneficiary Class by Satisfaction with Doctor's Care

		Satisfact	Satisfaction with Doctor's Care	's Care		
Beneficiary Class	Completely Dissatisfied	Generally Dissatisfied	No Opportunity	Generally Satisfied	Completely Satisfied	Total
Active Dury and Dependents	4.77 (134)	14.6% (418)	0,57 (15)	44.4% (1269)	35.8% (1023)	2859
Retired and Dependents	1.73 (39)	(151)	(51) 29*0	30.67	60.85 (1366)	2247
Survivors of Active Duty	0,6° (2)	(07)	1.0.	30,27	61,77 (190)	308
Survivors of Retired	1.37	(SD)	(H)	(C)-	6251) 507-63)	122
Not Ascertained						ŝ

17.27

Table III.6.24; Beneficiary Class by Satisfaction with One Doctor for Health Problems

		Satisfac	Satisfaction with One Doctor	boctor		
Meneficiary Class	Completely Dissatisfied	Generally Dissatisfied	No Opportunity	Generally Satisfied	Completely Satisfied	Total
Active Pary and Dependents		(90Z) 2Z*57	4,2% (120)	24.52 (699)	22.2% (633)	2857
S tipod and Sependents	!1.3. (254)	15.92 (358)	3.67 (80)	28.2% (635)	41.02 (921)	2248
Survivors of Active Duty	7.2° (22)	10,87 (33)	1.37.	24.35 (74)	56,47 (172)	305
Survivors of Retired	8.87 (20)	14.15 (32)	2.2% (5)	20.7%	54.27 (123)	722
Not Ascertained						85

Table III.C.25: Beneficiary Class by Satisfaction with the Amount of Red Tape

		Ām	Amount of Red Tape	6		
Beneficiary Class	Completely Dissatisfied	Generally Dissatisfied	No Opportunity	Generally Satisfied	Completely Satisfied	Total
Active Duty and Dependents	12.1° (347)	22.97 (656)	1.2% (35)	44.3% (1267)	19.42 (555)	2860
Setired and Dependents	8.07 (180)	13.12 (295)	1.57	38.0% (854)	39,37 (884)	2522
Survivors of Active Duty	3.15 (25)	14,65. (45)	4.2% (13)	29,92 (92)	43.27 (133)	308 -
Survivors of Retired	3,67 (8)	14.22	0.47 (1)	36.98 36.83)	44.97 (101)	225
Not Ascertained						86

Table III.C.26 Beneficiary Class by Satisfaction with Type of Medical Service Covered

	S	atisfaction wit	h Type of Medic.	Satisfaction with Type of Medical Service Covered	red	
Beneficiary Class	Completely Dissatisfied	Generally Dissatisfied	No Opportunity	Generally Satisfied	Completely Satisfied	Total
Active Duty and Dependents	3.9Z (111)	12.5% (358)	0.9% (27)	. 47.12 (1349)	35.57 (1017)	2862
Retired and Dependents	4.2% (95)	10.2% (230)	1.67 (35)	37.17 (834)	46.97 (1056)	2250
Survivors of Active Duty	4.32 (13)	10.5% (32)	3.05 (9)	33.62 (102)	48.77	304
Survivors of Retired	1.82 (4)	9.7% (22)	4.9% (11)	33.27 (75)	50.45 (114)	957
Not Ascertained						86
					Total	872.

g. Summary. The lack of substantial differences in the perception of health care services by different user groups and different beneficiary groups is the major finding of the section. A complementary finding is that most respondents are generally satisfied with the level of medical service they have received. Some of the particular problem areas (relatively) are the use of multiple doctors and the amount of red tape necessary in some systems. These problems are associated with the use of Direct Care systems and the use of CHAMPUS. In general the organization of the health care systems is a somewhat greater cause of dissatisfaction than personal courtesy of medical personnel, but neither problem appears serious. The problem areas identified above suggest a difference based on the use of military and civilian health care services. The direct comparison of the systems is analyzed in the next section of this Chapter.

C.2 Differences Between Civilian and Military Health Care

This section describes the differences between military and civilian health care systems as perceived by individuals who are classified as beneficiaries of (i.e., eligible to use) the military system. The analysis is based on forty questions asked respondents which require a direct comparison of the two systems. The substance of these questions parallels that of the previously discussed medical service evaluation questions except that this list is more detailed and includes items about facilities, costs, alternatives, continuity, and preferential treatment that are not covered previously. The items appear in Table 111.C.27. The question format requires that respondents judge either military or civilian service better, or indicate that they are the same in some way. The coded format is a score of I (equals civilian better) to 4 (equals military better).

Because of the large number of variables the presentation of findings will be shortened, but without a loss of useful information for the reader. First, responses from the entire sample (of family units) will be described for each of the forty (tems. This description will include a breakdown of responses into four categories: military modical service is better, civilian medical service is better, neither is better—there is no difference, and both have positive and negative aspects. Once these results have been discussed the cross—tabulation of results of military vs. civilian health care evaluations by user type and beneficiary class will be presented.

Tables will be presented only for those items on which a reasonable number of respondents did not see the military and civilian systems as providing equal service. Because of the prevalence of the "No difference" response a cut—off—point of 90" was established, i.e., there will be a user type by

Table III.C.27

Summary of Military vs. Civilian Health Care Evaluations

	Civilian Better	Neither-No Difference	Both - Positive or Negative	Military Better
MILITARY VERSUS CIVILIAN: Dental Care Limergency Care Specialists Pharmacy Service Preventive Care	10.1% 4.9 4.1 .7 2.8	88.1% 70.7 °5.° 95.1 93.4	.5% .6 .6 .1	1.3 ² 15.5 0.4 4.1 3.6
Long-Term Care Comprehensiveness Services Physicians Corpsmen	.2 1.1 1.0 13.8 4.5	99.6 93.2 98.2 54.9 93.8	- .1 .0 4.8 .1	.3 5.6 .8 .26.4 1.7
Nurses Dentists Personnel Staff Hospital Plant	.7 1.0 .6 .3 5.2	97.7 97.5 99.2 99.1 84.1	.1 - - - .7	1.5 1.4 .2 .6 10.0
Ambiance Togetherness Doctor's Concern Staff Concern Doctor's Courtesy	4.7 .2 20.1 5.2 2.0	93.0 94.3 69.2 92.7 94.5	.2 2.2 .2 .2	2.1 5.5 8.5 1.8 3.3
Staff Courtesy Inpatient and Provider Communication Proximity to Home Appointment East Choice of Doctors	2.0 2.2 17.8 35.1 3.5	96.3 95.3 66.7 56.1 96.2	.1 .2 1.8 2.6	1.6 2.3 13.8 6.2 .2
Waiting Time in Office Other Waiting Time Out-of-Town Care Champus Alternative Red Tape	25.0 3.7 .3 2.1 3.6	70.2 95.3 98.7 93.9 94.0	1.2 .1 - .2 .1	3.7 .9 I.0 3.8 2.3
System Communication Medical Records Dependent Care System Organization Cost	.8 2.8 2.1 3.0 .5	90.0 95.1 96.1 96.1 26.1	- .1 .1 .1	.2 1.9 1.8 .9 72.9
Sense of Security Continuity of Care Patient's General Attitude Toward Screening Process Preferential Treatment	3.1 16.0 .1 3.6 8.7	94.5 81.6 99.3 96.1 89.8	.1	2.3 1.8 .7 .3 1.2

of the respondents thought service was the same. This means that individual results will be presented for 12 of the 40 items on the list for both user type and beneficiary class.*

Following presentation of these results a brief description of the special case of CHAMPUS evaluation will be provided. This analysis is presented because of the special insterest in this program and its evaluation which is currently being expressed by the Department of Detense. It occuries a special position in the military vs. civi'ian health care system and because of its relatively low usage has become a special target in attempts to improve the MHSS.

Before beginning these descriptions the special case of State differences must be described. Each analysis described here was also done for the California and Texas samples independently. The results of these analyses show little or no difference between the samples on virtually all items where the N was large enough for evaluation. Because of the size of the Texas sample and the lack of variance in responses to comparison questions, there were usually too few cases to evaluate in any form.

^{*} Tables were constructed with 33 of the 40 items aggregated into five substantive scales. These tables reflect the low variance on items which po into each, but also provide insight into the extent to which individuals rated all scale items the same way. For readers interested in this distribution the cross-tabular results of scale scores by user type for the five scales is presented in Appendix A.

a. Military vs. Civilian Health Care Evaluation by User Type: Table III.C.27 shows the distribution of comparisons for each of the forty items on the list. It is evident from an inspection of this table that relatively few iters are perceived as different (better in civilian or military systems). Because of the absence of differences a rather liberal cut-off point for detailed examination has been established, viz., 90%. There are 12 items upon which 90% of the respondents were not in agreement as to their equality. They are: (1) dental care; (2) emergency care; (3) specialists; (4) physician quality; (5) hospital plant quality; (6) doctor's concern with patients; (7) proximity to home; (8) ease of obtaining appointments; (9) waiting time in the office; (10) cost; (11) continuity of care; and (12) preferential treatment. The proportion who see no difference ranges from 89.8% (preferential treatment) to 26.1% (cost). It is interesting to note some of the items on which no difference is seen (even by those who do not use the military system). These include: nurses (97.7% the same), dentists (97.5%), ambiance (93%), inputient and provider communication (95.3), choice of doctors (96.2), red tape (94). and patients general attitude toward (09.1%). All of these represent areas where it may have been expected that the civilian system sould be perceived as being better.

The 12 items upon which there is some difference may be divided into three groups: (1) those dealing with the quality of medical care (physicians, doctor's concern, continuity of care, emergency care, divilian specialists and bospital plant); (2) those concerning convenience (waiting time in office, appointment ease and proximity to home); and (3) a markellan one group (including preferential treatment, dental care, and cost).

An overall view of these results reveals that the military health serves is perceived as better in three instances: physicians (Table III.C.28), emergency care (Table III.C.31), and cost (Table III.C.29). The results are mixed (dependent on user type) in two cases, civilian specialists (Table III.C.32) and hospital plant (Table III.C.33). In the remaining six tables civilian care is perceived as better than military care by all user groups with one exception. These results will be discussed individually.

Physicians: Somewhat surprisingly, all user groups see military physicians as better by a margin which averages about 10° (Table 111.0.28). Slightly better than half of the respondents see them as the same.

Doctor's Concern: For all user types from 10% to 20% more see the doctor's concern as greater among civilian doctors (Table III.C.29). Slightly more than 2/3 see civilian and military doctors as the same.

Continuity of Care: In an item probably related to changing doctors and rotating assignments, virtually all who see a difference in military and civilian care consider the civilian service to offer greater continuity (Table III.C.30).

Emergency Care: While approximately 80° see no difference, among those who do see a difference the majority favor the military as providing better emergency care, usually by a margin of about 3 to 1 (Table III.C.31).

and civilian the same on this dimension and of those who find differences there is a slight tendency toward the mulitary, although one group, those who use both direct and CHAMPUS, finds civilian specialists better (Table 111.0.32). Perhaps they have more comparative experience.

Table III.C.28: Family User Type by Comparison of Military and Civilian Physicians

edil Jasa	Civilian Better	Noither Better	Both Positive and Negative	Military Better	Total
Direct Only	13,4° (359)	52. <i>9</i> ⁷ (1422)	5,43 (144)	28.42 (763)	2688
CHAMPUS	14.92 (35)	60.0 ⁷ (141)	3.47	21.72 (51)	235
Soth Tirect and GBARPTS	14.65 (66)	52.0" (235)	7.3% (33)	26.1 <i>7</i> (118)	452
Civilian Only: Wo Direct or CHEMPUS	(328)	57.2U (1327)	3.9° (91)	24.7' (572)	2318
ľnknown					1
				Total	7649

Table III.C.29: Family User Type by Comparision of Military and Civilian Doctor's Concern

adk <u>i</u> Jasi	Civilian Setter	Neither Better	Both Positive and Negative	Military Better	Total
Direct Calj	(+ ? ·) (• ? ·)	n8.4 (1839)	(69) 9°7	(197) (197)	2688
ATO Singkan)	(591) 	(7) (7)	(01) 3835	235
6	25.75 27.85	([1 원 년)	3.1 1.6	7.3° (33)	<u> </u>
	1 to 4 (() to 2)	70.6. (1639)	. e (38.)	7,9° (182)	2318
Ne usu					1

Table III.C.30: Family User Type by Comparison of Military and Civilian Continuity of Care

adoj. Jaso	Civilian Better	Neither Better	Both Positive and Negative	Military Better	Total
alto Dearto	10.0 (10.1)	79.9° (2144)	1,0? (26)	2.3% (61)	2688
CHAMPLS	9 + 1 - (1 + 1)	79.1° (136)			235
	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	77.2° (349)	0,43° (2)	1.12	452
	0.0	84.67 (1961)	0,4° (9)	1.6% (36)	2318
Coko, xii					1

Hospital Plant: Again 84' see the two as the same and all but the CHAMPUS only group see the military as somewhat better (Direct Only users as much better) in providing hospital facilities.

Waiting Time in Office and Appointment Ease: Both of these items are weighted heavily in favor of civilian services in those cases were respondents hold an opinion (about 1/3)(Tables III.C.34 and III.C.35). There are no differences among user types.

Proximity to Home: About 1/3 of the respondents see a difference.

Those who use direct only find military better, while those in the Other user type groups favor civilian (lable 111.0.36). (It would be interesting to determine the ictual distances from comparable facilities for each of the groups. Enfortunately, these data are not available in the present survey.)

Preferential Treatment: While just over 10 perceive a difference in preferences given to different group in health care, these who do, teel that such treatment is tar your likely in the military than in civilian health care service. Clable 181, 300, or one, the HHF syndress is still very much in evidence. It is service access to the Theorem that o fee still see it that way.

Dental Care: Claim, is therefore the additioner of but the marking widely tavers can be added the results for the Letter 10.0, 380.

comparison to the substance of a substance of the content of the c

5694

Total

∐

Family User Type by Comparison of Military and Civilian Emergency Care ..ble !!!.C.3!:

odkī Ikbe	Civilian Better	Neither Better	Both Positive and Negative	Military Better	Total
Birect Only	5.2° (140)	76.3 <i>?</i> (2052)	0.82 (22)	17.62 (£74)	8897
CillyPUS Only	4,3 ⁷ (10)	84.35 (198)	(1)	11.17	235
Soth Direct and CHAMPIS	5,3° (24)	72.8° (329)	2,2: (10)	19.72 (89)	452
Civilian Only: 30 Direct or GEMPUS	(261)	32.1° (1902)	0,52 (15)	12.7" (294)	2318
Unkt: «.m					I

Table III.C.32:Family User Type by Comparison of Military and Civilian Specialists

User Type	Civilian Better	Neither Better	Both Positive and Negative	Military Better	Total
Direct Only	7.7.7 (126)	(8777)	(1.8"		8897
CHAMPES On U.	3. . (8)	88.97 (209)		7.77 (18)	Ç) ř
Silawan pan	9.17 (41)	7.5.5 (374)	(S)	7.5 (33)	797
Saffer an todic	2-4-(56)	89.4.1 (2.72.)	6.0 (9)	7.87	2318
mke m					1

Family User Type by Comparison of Military and Civilian Hospital Plant ..b.e !!!.C.}}:

edkj Jesj	Civilian Better	Neither Better	Both Positive and Negative	Military Better	Total
Direct Only	5.6.] (150)	80.82 (2173)	0,8°. (22)	12 . 8? (34.3)	2688
HAMPUS Only	6.33 (16)	87.2 (205)	(1) .25*0	5.5° (13)	235
outh Direct and HampTS	5.53 (25)	35.87 (388)	1.1%	7,5° (34)	4.52
Presson delpt Se Direct or discours	(5v I)	57.2° (2021)	(E1)	.9*2	2318
11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					1
				Total	5695

Table III.C.34: Family User Type by Comparison of Military and Civilian Waiting Time in Office

أحدث والمتعدد والمتعد				<u> </u>	
edd <u>.</u>	Civilian	Neither	Both Positive	Military	Total
Eger	Better	Better	and Negative	Better	
Officet	26.8%	67.47	1.52	4.3%	2688
Only	(720)	(1311)	(41)	(116)	
CHAMPUS	27 . 2 °	70,22	0.0°	2,67	235
Only	(64)	(165)	(0)	(6)	
Both Ofrict	31.97	63.3°	1.1°	3.8°	795
and Chambes	(144)	(286)	(5)	(17)	
Civilian Only: No	21.3z	74.3%	0,95	3.02	2318
Direct or CHAMPUS	(393)	(1735)	(21)	(69)	
Unknown					-

Table III.C.35: Family User Type by Comparison of Military and Civilian Appointment Ease

acit Tyse	Civilian Better	Neither Better	Both Positive and Negative	Military Better	Total
Direct Only	37.03 (994)	52.67 (1414)	3.17 (82)	7,42 (198)	2688
GEAYPUS Only	76°05 (96)	54.0Z (127)	2,12 (5)	3.0%	235
Both Direct and OberPTS	45.1% (201)	45.42 (205)	2.97	6.6% (30)	452
Civilian Only: No Direct or CHATPUS	30.47 (705)	62.3. (1445)	2.1. ² (48)	5.27 (120)	2318
Unknown					-

Table III.C.36: Family User Type by Comparison of Military and Civilian Proximity to Home

adding apen	Civilian Better	Neither Better	Both Positive and Negative	Military Better	Total
477 M.T.C.	14.5° (390)	66.52 (1787)	7,9% (50)	17.2% (461)	2688
81.87 81.87	37.4° (88)	51.97	2.67	8.1 <i>Z</i> (19)	235
Bach Crawers Sections ban	19.0. (98)	64.87 (293)	2,97 (13)	12.87 (58)	5.5.5
os idus matitato Os idus matitatos	19.37	68.77 (1593)	1,35 (31)	10,6" (245)	2318
Unknown					ı

Table III.C.37: Family User Type by Comparison of Military and Civilian Preferential Treatment

nest Type	Civilian Better	Neither Better	Both Positive and Negative	Military Better	Total
Direct Saly	8.52 (229)	89.82 (2414)	0.22 (5)	1.5% (40)	2688
ÁTD) Slavení	16.67 (39)	83.0% (195)		0.47	235
Soth Direct and GHAMPUS	9.77 (44)	38.72 (401)	0 . 47. (2)	1.17	55.
Similian unly: 30 Jirost ur CHAMPUS	8.0% (186)	90.8% (2104)	0.3% (8)	6.93 (20)	2318
Unknown					1

Family User Type by Comparison of Military and Civilian Dental Care Table III.C.38:

Total	2688	235	452	2318	1	5695
Military Better	1.0% (28)	1.3%	2.0% (9)	1.6% (36)		Total
Both Positive and Negative	0.7% (20)	0.4%	0.4%	0.2%		
Neither Better	85.8% (2305)	88.5% (208)	83.6% (378)	91.67 (2123)		
Civilian Better	12.5% (335)	9.8% (23)	13.9% (63)	6.73 (155)		
User Type	Direct Only	CHANEUS Only	Soth Direct and CHAPPUS	Civilian only: Lo Direct or CHAMPUS	Unknown	

Table III.C.39: Family User Type by Comparison or Military and Civilian Cost

1. 9 9. 00 1. 00 1	Civilian Better	Neither Better	Both Positive and Negative	Military Better	Total
400 100470	(9)	21.77 (584)	0.6].	77.45 (2081)	2688
SEANNE SEANNE	(2)	34.5° (31)	7.4.7 (1)	64.37 (151)	585
Soft Timest and Taxants		23.27	5.17	75,27 (340)	^1 ·1
	.7.7	30.8 (7.33)	0.57	68.11 (1574)	5335
ಬಳುದಿಸಿದ್ದ					par en
				Total	5695

b. Military vs. Civilian Health Care by Beneficiary Class: Tables III.C.40 through III.C.51 present the same analysis as subsection a. except that beneficiary class is substituted for user type in the cross-tabulations. The results presented in these tables provide some interesting contrasts to the previous findings. In this subsection results on each of the twelve items will be compared to results among user types. Significant differences occur in three areas.

Physicians: While the general pattern among user types is to view military physicians as better, among beneficiary classes the trend .s resed, surprisingly, by the Active Duty and Dependents class, who feel by 3 be, entage points that civilian doctors are better (Table III.C.40). Perhaps the most interesting question is still unanswered, i.e., why does the group most likely to use the military doctor have even a slight preference for civilian doctors, while those more likely to use civilian doctors feel just the opposite?

Doctor's Concern: As was the outcome among user types, all classes of beneficiaries favor civilian doctors in terms of concern for their patients (Table 111.C.41).

Continuity of Care: Again, all groups favor civilian medical service among those who have a preference (Table 111.C.42).

Emergency Care: All beneficiary groups favor the military as providing better emergency service by a substantial margin (Table 111.0.43).

Specialists: Contrary to user types, where one group favored the civilian system, all beneficiary classes feel the military system provides better specialists among those who have an opinion (Table III.C.44).

Hospital Plant: The general preference favors the military, although among Active Duty and Sependents the preferences are divided evenly (Table 111.0.45).

Table III.C.40: Beneficiary Class by Comparison of Military and Civilian Physicians

Beneficiary	Civilian	Neither	Both Positive	Military	Cotal
Class	Better	Better	and Negative	Better	
Anthro Pacy and	20.85	56.02	6,0%	17.37	2854
Depundence	(594)	(1598)	(172)	(490)	
Sector: Military	7.47	53.2%	3.4°	35.5%	2243
and Departments	(166)	(1193)	(87)	(797)	
	(12)	64.47 (138)	2.17 (6)	29.57 (86)	262
Sarvivors of	6.2°	40.0°	(01)	49.3.	225
Detired Military	(14)	(90)	23.4	(111)	
Unknown					80

Total

Table III.C.41: Beneficiary Class by Comparison of Military and Civilian Doctor's Concern

Beneffela ry Class	Civilian Better	Neither Better	Both Positive and Negative	Military Better	Total
Antipe Outpland Dependents	29.3° (887)	61.8] (1765)	.7.2	6.15	2854
Netfrel Military and Dejendents	11.37	76.5 ⁷ (1716)	1.57 (34)	10.7 <i>2</i> (240)	2243
Surviva na or Activa i na	9.2%	80.57	्त (Î	8.97 (26)	242
Survivers of Section Military	5 (19)	(153)	3.6	8.7.9 (0.)	ĵ.
Спкложп					ż
				Total	. p.a.

Table III. (42: Depetion of the Companison of Arlitary and Civilian Continuity of the

\$20 C. T.	6 4 0 5 1 4 1 4 1 4 1 6 1 6 1 6 1 6	medde Meddeg	Soch Positive and Negative	Military Better Better	
	15.67	ion (C. S.)	0.8%	1.87	10 10 10
100 34 34 34 34 34 34 34 34 34 34 34 34 34		8.18 (3.83.0)	4. (a. (a. (a. (a. (a. (a. (a. (a. (a. (a	i.6 (36)	5.74.3
	(3.8)	(150) 0° 98	() ()	· (3)	€ 6 °.
	4 9 2	72.9 (5.9)	(C)	3.6 (8)	. 252
ex Tayler	(C)	80.0 64)	0.0	2.5	SS
. •				Totol	\$695

ir iable III.C.43: Beneficiary Class by Comparison of Pilitary and Civillin Elektence

* † * * * * * * * * * * * * * * * * * *					Î	
10 M 0 0 M 11 M 11 M 11 M	(3.5)	\$ (6.7.8) (6.7.8)	e 9	9.00	(2)	77 77 83 84
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(6.0)	• (1)	8. d	(**0	<u>.</u>	
M 0 M 0 0 0 0 0 0 0 0	((() () () () () () () () ()	20 (1) (1)	622)	(Ga)	96.3 (77)	
8 4 5 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	(5.50) (5.50)	- (S	• • •	2	~ ()	
Market Company		150 34 34 34 34 34 34 34 34 34 34 34 34 34	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -		118. 12. 12. 12. 12. 12. 12. 12. 12. 12. 12	

Table III.C.44: Beneficiary Class by Comparison of Military and Cryilian Specialists

; ₆₆₀ ;	ਦ ਹ ਹ ਦ				•
() v					
	(2.8)	5.	33,5 (.93)	A. (.)	
ā ba		6.0	87.0	3.5	
*:-C	(241)	0.3 (3)	85.9 (1926)	3.0 (68)	
******	8.37 (2.39)	(2.5)	85.5° (233)	5.35 (151)	
Total	75. 55. 54. 67. 77. 49. 44. 49. 44. 49. 41. 49. 41.	Doth Positive and Negative	Melthor Better	Cittor Dottor	Sat Joseph Co.

. Wie III.V.43: Benefictury Class by Corparison of Military and Civilian Lospital Plant

		(399)			
AND DOUGH TO THE TABLE THE	1 T	6.5	5		
New York of the Control of the Contr	1. 5.5 (1.5.5.7.1)	(1627)	95.29 2.39	57 - 1 (245)	
6 52 10 52 11 54 11 54 11 54 11 54	2 - T	5 · · · (7 P.)		(A)	
100 200 200 200 200 200 200 200 200 200				14 34 67 67 50 50 50 60 60 60 60 60 60 60 60 60 60 60 60 60	

Waiting fine in office and Appointment Fase: On these convenies e med in the civilian system is an easy winner in all categories Cables III.C.46 and III.C.47).

Proximity to Home: Active duty and dependents real that military services provide an advantage in this convenience item. All other proups teel the civilian medical services are more convenient (Lable III.C.48). This is particularly true for older groups, retired and survivers of refired, who apparently have strong feelings about physical convenience.

Preferential Treatment: Again, all groups have a significant minority that feels the military medical service gives them preferential treatment (Table III.C.49).

Dental Care: As above, dental care is selt to be better in civilian life than in the military by the loss than 12° who have a preference (Table III.C.50).

Cost: Cost is again overwhelmingly better in the military, but an interesting break-out occurs among different beneficiary classes. Active buty survivors, who are last likely to use the innect care tacifities in probably most likely to use competitors to CHAMBOS, are not than at likely to see no difference between the systems. This is by far the largest single proportion to hold this attitude. (Table 111.0.74)

Beneficiary Class by Comparison of Military and civilian Waiting Tire in Table III.C.46:

7°4°2°	1.5 31 11	20 3.5 5.1 7.1		. (SC	5695
10. 5. 54 W. C. 49 42 44 47 150 27	((2))	4.1		(7.5)		14 65 42 42 43
Born Posterio	10.00	0.8	6.0	F		
Notther Detter	63.72 (839)	75.4	36.0 (251)	(RC)		
다 # 다 # 다 # 다 # 다 # 다 # 다 # 다 # 다 # 다 #	31.5° (8.63)	29. 7 (342)	11.6 (33)	.5.6		
11. 21. 21. 21. 21. 21. 21. 21. 21. 21.	1.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1	150 32 47 19 44 17 44 17 44 17 44 17 45 12 50 17 50 17	100 100 100 100 100 100 100 100 100 100		# 8 # 1 # 1 # 1 # 1 # 1 # 1 # 1 # 1 # 1	. ,

Beneficiary Class by Comparison of Military and Civilian Appointment Ease Table III.C.47:

	Civilian Better	Neither Better	Soth Positive and Regative	Miltary Better	Total
And the Park and The Condition of the Co	37.27 (1062)	52.57 (1498)	3.37	7.03 (200)	285
Retired Military and Desendents	36.3 (815)	56.3 (1262)	2.1 (47)	5.3 (119)	2243
Accountant C	17.1	77.1 (225)	0.7	5.1 (51)	292
Sarity of Military Sarity of Military	25.8 (58)	64.4 (145)	2.2	7.6	. 55.0
Cakaosm					8()
·				Total	7,697

Table III.C.48: Leneficiary Claus by Comparison of Military and Civilian Proximity to Home

	7585	22.23	C1 - C1 - C1	(A)	99	2636
Military Netter	(66t)	1::1: (250)	. 2.75	9.32	aport index of a size of a size	r-4 ⊲ ∪ O [-4
Both Positive and Regative	1.5. (42)	2 . . (53)	0.77 (2)	5/ <u>(1</u>)		
APRILATE SERVICES	75.67 (2156)	(600) (600)	(33.3)	53.30 (520)		
Civilian Better	5.42 (135)	(Teg)	(52)	(8.2) (8.2)		
Beneficiary Class	Colive Duty and Dependents	Section Military and Dependences	00 00 00 00 00 00 00 00 00 00 00 00 00	Total Williams	Tricosit.	·

Beneficiary Class by Comparison of Military and Civilian Preferential Treatment Table III.C.49:

Senaficiary Class	Civilian Better	Neither Better	Both Positive and Negative	Military Better	Total
Apply and a control of the control o	(801) %	91.2%	0.4%	1.5%	2854
and	12.3 (275)	85.6 (1942)	0.1	1.0 (23)	2243
97 h. 97 h. 98 h.	3.1	96.6 (282)	0.3	0.0	26c
Surviours of Cathed Military	5.8 (3.3)	93.8 (211)	0.0	0.4	225
Unknowm					80)
. ,				Totta	5694

lable III.C.50: Beneficiary Class by Comparison of Military and Civilian Dental Care

تع 1	2854	2243	292	977	გი	5694
Fotal		<i>c</i> .			، بينانيون داويل بورنسست	i Č
Military Dotter	1.37 (38) 28	1.5	0.7 (2)	1.3		Total
Soth Positive and Megative	0.7%	0.3	0.0	0.0		
Neither Botter	86.77 (2474)	87.8 (1969)	96.9 (283)	93.3 (210)		
Civilian Bettor	11.27	10.3 (235)	2.4 (7)	5.3		
#	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	# # # # # # # # # # # # # # # # # # #	G 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 - 17 - 17 - 17 - 17 - 17 - 17 - 17 -	uwouyun	

Table III.C.51: Beneficiary Class by Comparison of Military and Civilian Cost

Beneficiary Class	Civilian Better	Neither Better	Both Positive and Negative	Military Better	Total
Active Duty and Pependents	0,2% (7)	14.6% (416)	0.8% (23)	84.4% (2408)	2854
ketired Military and Rependents	0.57 (12)	35.1% (788)	%†°0	64.0% (1435)	2243
APPLICATION OF A	(1)	53.1° (155)	0.37 (1)	46.2% (135)	292
Survey resof Retired Military	(a)	35.07 (81)	0.45	60.9% (137)	225
Crknown					80
				Total	#69½

C. CHAMPUS Evaluations

CHAMPUS is the military health assistance program which provides for outside care to eligible beneficiaries who, for one reason or another do not use the direct care system. As previous figures have demonstrated, most of those who are eligible and who are not using direct care, are also not using CHAMPUS to support their medical care needs. In essence, these people are making a direct comparison between the military supported system and some civilian system, possibly even paving themselves, and are choesing the civilian system. The survey data allow an analysis of this question in greater depth than is true of other issues because there are several questions which focus on this particular issue. This section provides an opportunity to examine some of the reasons for avoiding the CHAMPUS system and may provide some indication of how the system might be improved so that it miles gain a wider following (if that is the goal).

Two questions are of particular interest. One is an open-ended question which asks nonusers why they do not use CHAMPUS. The second is a more structured question which poses specific target areas in an effort to determine negative aspects of CHAMPUS. The results of these questions will be discussed first. Subsequent analyses will investigate three specific service problems, services covered, red tape, and the before reinbursement as a function of knowledge of the system. Encyledge is determined by self-report items which divide respondents into three groups: (1) those who have used CHAMPUS: (2) those who claim to know about CRAMPUS; and (3) those who say they have simply heard about CHAMPUS.

Table III.C.52 presents results of the section on why people did not use CHAMPUS. The most cited reason is the "uncled great Care" (36.1) and the second and third root cited remons are "good health" (8.27) and "haven":

Table III.C.52: Why People did Not Use CHAMPUS

Reasons	Reportion of Those and Mentioned in Responses to Question on why did not use CHAMPUS
Good health	8.2%
Care is Limited	6.
Use Military Care	16.13
Other Coverage	3.8%
Haven't Needed it	7.57
Other Reasons	0.0%
Incomplete Coverage	1.2%
Red Tape	2.02
Short Comings	.3%
Cost	2.87
laeligibility	2.6%
Didn't know of Eligibility	78 .
Lack of Knowledge	6.2%
Other Reasons (Specific)	1.0%

N = 5095 valid cases

needed it" (7.5%). Thus, almost 1 in 3 of the respondents either had no need or used the alternative direct care system. On the other hand those who listed faults for failing to use CHAMPUS constitute only a small proportion: incomplete coverage 1.2%, red tape 2%, shortcomings .3%, cost 2.8%, and limited care .9%. A total of 7% cited lack of knowledge. Almost half did not respond to the question. One conclusion which might be drawn from this table is that most nonusers do not reject the CHAMPUS system, but simply ignore it.

Questions were also asked about specific aspects of CHAMPUS. The results of these questions are presented in Table III.C.53. As in the previous table the major problem is a lack of response. However, it we assume that respondents are representative of the total sample, or at least of interested persons, some useful findings are forthcoming. First, the most negatively perceived aspect of CHAMPUS is red tape, or paperwork (86.1% of respondents view this aspect as negative). Close seconds are time before reimbursement and acceptability to doctors (75% each). The former is another form of red tape which further supports the idea that perceived inefficiency is the major reason for negative evaluations. The lack of acceptance by civil an doctors is a potentially serious problem with widespread repercussions. If this timure is true, and not just the invention of uninformed respondents, the entire CHAMPUS system is open to childenge as not being responsive to customer needs. At the very least this ellegation requires serious follow-up investigation. The two other most negative aspects of CHAMPUS, as cited in this question, are service covered to 0.0 negative) and premium cost (33.3) negative). While these tisuses are interesting they become truly intermative only shen associated with other potential intervening variables. For example, if these who teel cornices

Table III.C.55:Positive and Negative Statements on CHAMPUS

Statements	Positive	Negative %	Total N	Same - No Statement Neither, Missing
Premium Cost	66.7	33.3	2155	3591
Services wered	50.4	9.67	1087	7659
Changes in Seneffts		Too small	* .:	
Limitations n Eligibility		Too small	**	
Second Tity to Coctofs	25.9	75.0	581	5165
Incomplete Reimbursenent		Too small N*	* 27	
Preference for Civilian Society	86.3	13.2	721	5025
property of the last ten	6.79	2.1	1327	4419
edel leg a ga maedel	13.9	86.1	1013	4733
The def to initializability	25.0	75.0	603	5143
Advantage Chen but of Com		Tow small	*~	
System - rgunization		Too small U*	*	
Fred Brist Market	99.1	<u>ه</u> .	086	4766
the state of the second		T. v. small	* 15	
Nisoriani na Trestment fotos e intiente		Tems or :	# \$7.	
Salar Andrews Commencer		*** Ilems (0)	**	

damning. If they do not have such coverage, but are using the direct care alternative, the damage is less severe unless the objective of CHAMPUS is to reduce dependence on direct care. Similarly, if respondents who complain of costs are being provided cheaper civilian policies, then CHAMPUS is not doing its job for civilian beneficiaries. If they are using direct care little can be done to reduce the problem.

Tables III.C.34 through III.C.56 provide an examination of three of the CHAMPES problem areas in terms of one possible mediating variable, knowledge of the system. Knowledge ranges from usage through recognition of the name. An interesting pattern emerges. In two areas, which we previously labeled efficiency, CHAMPES' reputation precedes it and those with less knowledge are generally more negative (Tables III.C.35 and III.C.36). In the area of services covered the opposite is true and there is a much more favorable climate of opinion in general (Table III.C.34). While it is difficult to generalize from such slim data it might be arised that CHAMPES needs a good FR campaign with regard to clicioney and a serious evaluation on the disension of coverage.

Table III.C.54: Positive and Negative Statements on CHAMPUS by Knowledge of CHAMPUS: Services Covered

	Positive	Negative	Total
Used	47.48 (299)	52.6% (332)	631
Know of	50.57	49.5%	
CHAMPUS	(161)	(158)	319
Heard of	0.79	36.07	
CHAMPUS	(87)	(49)	136
, , , , , , , , , , , , , , , , , , ,			
is vertained		 	
			1087

Table III.C.55;Positive and Megative Statement on CHAMPUS by Knowledge of CHAMPUS: Red Tape

	Positive	Negative	Total
S.J.GWE()	17.5" (116)	82.5% (546)	662
Emew of PRAMES	6.17	93.97	231
Board of Charges	8.47	91.67 (109)	119
Not Assertained			-
		Total	1013

Table III.C.50: Positive and Negative Statements on CHAMPUS by Knowledge of CHAMPUS: Time Before Reimbursement.

	Positive	Negat ive	Total
S. (1877)	30.55 (137)	69.57	677
4 XX 0 XX 12	6.0() (0()	(56) (56)	104
Jo patential	6.17	93.97	67
Pod para			
		Total	6003

d. Summary: in summary, section C.2 provides an overall view of comparisons of a number of aspects of military or civilian medical services. While 28 of 40 sterm show the military and divilian services to be equally perceived and four more show the military to be sorewhat more highly perceived (these were cost, physicians, emergency care and, to a degree, tacilities), there are still eight areas in which they are poorly perceived. On particular importance here is the question of convenience items which have traditionally been the nomesis of the military system. Also of importance are a perceived lack of concern by doctors and discontinuity of care which may be more the fault of the military rotation system than of the 1918S itself.

While most of the perceptions of the civilian vs. military health care systems are relatively constant over user type and beneficiary class, one exception is noteworthy. It is that the Active Duty and Dependent beneficiary class is more likely to endorse the quality of civilian physicians than military physicians. This is contrary to a trend for all other identified groups to favor military physicians. This group exhibits the same anti-military propensity on the question of doctor's concern, again representing a slight trend reversal. These specific instances signal a more general trend among the Active Duty and Dependent respondents to be at least as negative and sometimes more negative toward military health care services than any other group. This pattern could be the result of a methodological problem, to wit, having to combine Active Duty personnel with their dependents in summarizing the answers. It may be dependents she are exhibiting more anti-military attitudes. Such a situation could have a substantial negative impact on retention. Unfortunately there was no way to separate these groups in the available data.

Another interesting outcome of this analysis is the failure of user type and, to a great extent, beneficiary class, to distinguish on the selection of military vs. civilian alternatives. Again, this could be a function of data limitations, but on the basis of what is available a incher investigation into this issue is strongly indicated.

number of factors play a role in the rejection of that system, but that these of chief concern are a perceived inefficiency in using the system, lack of outside doctor acceptance and limitations in coverage. Of the three, lack of outside doctor acceptance is perhaps the most serious if it is true. Coverage limitations, if fair comparisons are being made, is a problem which is currently being addressed in proposed research. Red tape is an unending battle which is quite prossibly insurmountable.

C.3 The Acceptance of Physician Extenders

An increasingly important aspect of medical service is the use of physician extenders to perform functions previously performed only by doctors. However, there are still many unanswered questions about what kinds of functions are acceptable to medical care users. The MHCS survey asked a set of seven questions about the use of such extenders. The following subsection presents an analyses of the results of those questions. This analysis was divided into three parts: (a) a basic description of the extent to which each of the seven functions was acceptable to survey respondents; (b) an attempt to develop a Guttman scale from the seven items; and (c) an attempt to determine if the primary mediating variables used in previous analyses in this study (user type and beneficiary class) are able to increase our ability to predict acceptance of the extender functions. A report on these analyses follows.

a. Responses to Physician Extender Questions: Table III.C.57 presents results of the seven basic questions on the use of physician extenders for increasingly technical tasks. The most acceptable of these tasks was allowing an assistant to do preliminary questioning, medical history, blood pressure, etc. Ninety-five point seven percent (95.7%) were amenable to that idea. The second most acceptable task was allowing an assistant to stitch minor wounds (83.5% positive). Third most acceptable was allowing follow-up care after a physician had diagnosed the ailment and prescribed treatment (79.7%). Just below two-thirds of the respondents would allow doctors' assistants to give pre- or post-natal care (64.6%) and prescribe for minor illnesses (63.4%). However, a large gap exists between the

Table III.2.57: Responses to Physician Extender Questions

Questions	Yes	Response	Undecided	Total
1. Let Assistant do Preliminary	95.7%	4.07	.3%	5741
2. Let Assistant Decide if see Doctor	36.77 (2105)	61.9" (3554)	1.47 (79)	57.38
3. Let Assistant do Follow-Up	79.7°	1 9. 07 (1090)	1.37	5740
4. Let Assistant do Pre/Post Matal Care	64.67 (3695)	30,97	4.5%	5723
5. Let Assistant Prescribe for Minor Illnesses	63.48	35.62 (2045)	.6.	5740
6. Let Assistant Stitch Minor Dounds	83.57	16.07	.5%	5739
7. Let Assistant Give Mest Medical Fare	36.87	61.02 (3500)	2.23	5735

final two items--"let assistant give most medical care" (36.8% approval) and "let assistant decide if the respondent shall see a doctor" (36.7% approval). Using the table as a guide, the level of acceptability of assistant care is 1, 6, 3, 4, 5, 7, 2. In all cases there is a very low number of undecided respondents.

b. Guttman Scaling: In order to determine if there was a real unidimensional hierarchical scale in the seven physician extender items, the results were submitted to a Guttman scale analysis. Two approaches were taken in this analysis. First, the items were entered as they were ordered in the questionnaire, in what was presumed to be the survey author's perception of increasing difficulty. Second, the program was allowed to select the order of items that best fit the Guttman model. Items were dichotomized for this analysis. Endecided respondents were grouped with negative respondents. The results of these two scaling runs were:

1. Using the original ordering:

Coefficient of reproducibility = .7387

Usual acceptance level = .90 or higher

Coefficient of scalability = .0253

Usual acceptance level = .6 or higher

Guttman scales have two basic requirements, unidimensionality and cumulativeness. Unidimensionality means "that component items must all measure movement toward or away from a single underlying object." Cumulative implies that the component items can be ordered by degree of difficulty, and that respondents who reply positively to a difficult item will always respond positively to less difficult items and vice versa." See Nie, Norman, of the confidence of the

Allowing reordering to maximize CR and CS:
 Coefficient of reproducibility - .8517

Coefficient of scalability = .4453

The order of items on this run turned out to be (from most to least difficult) 2, 7, 5, 4, 3, 6, 1.

Thus, the most difficult item was that of letting the assistant determine if the respondent was to see a doctor. On the other hand, the stitching of minor wounds turned out to be a relatively easy item. Possible further analyses might be conducted by eliminating items with large numbers of errors and then attempting to scale the shorter list. Barring this reanalysis, the Guttman scale must be rejected for this set of items.

c. Physician Extender Acceptance by User Type and Beneficiary Class:
The final step in our analyses of physician extender questions was to determine if they are related to either user type or beneficiary class. This determination was made by preparing cross-tabulation for each of the extender questions by user type and beneficiary class. The results are presented below.

For type was found not to be related to any of the physicism extender questions, i.e., there were no significant differences among user types on any of the extender questions. This negative finding suggests that three of civilian vs. military medical services is not a factor in the acceptance of extenders.

A literal description of the source of the state of the source of the so

However, in the analyses of beneficiary class groups some significant differences were found. These are presented in Tables III.C.58 through III.C.62. Since the tables present approximately the same pattern for each question where a significant experience exists there is no need to describe each in detail. On questions concerning willingness to let the physician extender do preliminary examinations, do follow-up treatment, prescribe for minor illness, stitch minor wounds, and give most medical care, the Active Duty and Retired groups are significantly more likely to agree than are the two survivor groups. Since the Active Duty and Retired groups constitute over 90% of the sample, the degree of acceptance reflects total sample percentages. In each case, the Survivor groups are lower than the overall sample, but not different from each other. We find no obvious explanation for these results.

Finally, all analyses completed in this section were also done for the California and Texas subsamples with no meaningful differences being found.

inhle III.C.58: Willingness to let Physician Assistant do Preliminary Examination.

Senerio i anv		Response		
Class	Yes	No	Undecided	Total
Active lasy and Dependents	96.3 ⁷ (2762)	3,5% (99)	.15 (2)	2863
Retired and Dependents	96.27 (2171)	3.32 (75)	.47	2256
Survivors of Active Duty	90.3° (278)	8.47 (26)	1.35	308
Survivors of Retirees	91.27 (207)	8.87 (20)		227
Taknown				87
			Tetal	5741

Table III.C.59: Willingness to let Physician Assistant do Follow-Up.

The second secon

Beneficiary Class	Xes	Response	Undecided	Total
State of the state	() () () ()	19.9%	1.0%	2363
Retired and Rependents	83.1 (1873)	15.57	$\frac{1.47}{(31)}$	2252
Survivors of Active Sury	47.37 (293)	23,57 (88)	4.27 (13)	309
Survivors of Retirees	70.5	28.67	. 6 . (2)	7.5.2
Unknown				(-}
			Total	5740

It is illicial and in Millingness to let Physician Assistant Prescribe for Miner Illness.

Beneficiary	:	Response		F
\$5.64.4.5	səx	NO	Undec laed	10521
Active Dury and Depositents	67.6° (1935)	3i.8' (909)	.67)	2861
10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	62,2° (1403)	36.7° (829)	1.1%	2256
	. 55.55 	51.3 (158)	2.3%	309
Summars of Sections	.8.5 (0111)	50.7%	. 9 (<u>.</u> 5)	227
Unknown				8.7
			Total	37.10

Willingness to let Physician Assistant Stitch Minor Wounds.

í

Senell lary	אַ פֿי	Response	Undecided	Total
Active and	\$2 (2) (2) (2) (2) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4)	17.1	(6)	2862
7	(a.c.)	10.17	. 77. (16)	2256
sarvioris (Astive Daty	5.3)	35.7%	1.67	308
Survivors of Retirees	2000	30.5"		226
uwouyu Cuyuowu				2,8
			Total	5739

The Fifternational Willingness to let Physician Assistant Give Most Medical Care.

Beneficiary Class	sək	Response	Undecided	Total
Aveive Juny and Dependents	30.0% (1177)	59.1 <i>?</i> (1690)	1.9" (54)	2861
Retired and Dependents	37.5" (346)	60.47 (1360)	2.1% (47)	2253
Surpleyes of Astion Daty	25.7%	70.7" (217)	3.67 (11)	307
Survivors of Sections	21.6 (39)	76.27 (173)	(5)	52.5
Cakaowa				8.7
			Total	57.55

month period. Individual data were available for this task and results are presented using the total sample of respondents (1657); having some user 1 data on the relevant question. The basic substantive is ness examine care the number of dental visits for each person during the past year and the total of those visits. Responses to these questions are compared for call beneficiary group, subsample area (California and Texas) and on four other demograph: and economic variables, age, sex, family composition and income. In addition, beneficiary group and geographic location are then controlled while differences between demographic and economic status are reexamined.

dental care usage based on beneticiary class and certain fit form to in a most with beneficiary class controlled. Takes latter differences center around the use of free care. Differences in dental visits associated of the contral controlled agreement member of visits, are substitutially resided when income lovel is introjected. These respects with higher income are likely to visit the destination.

D.1 Dental Visits by beneficiary of assi

Table HI. It shows the breakdown of total decimal visit on each of any class. Looking first at the narrinal visits sat the feature of the $e^{i \cdot t}$, it can be seen that core than 130 cm. It of the corresponding to $e^{i \cdot t}$. The formula $e^{i \cdot t}$ is a parameter $e^{i \cdot t}$ of the corresponding to $e^{i \cdot t}$ of the corresponding $e^{i \cdot t}$.

non illumina contal Visits by beneficiary class for lotal Sample

Average	Visits Per Year			6.7	22	1%		
		140.1	.001		00:	. (00)	.001	
	***	3.57	5.5 (322)	2.67	(2.53)	(22)	(2.5)	
	13 or more	. 4. (5.5)	(93)	2.07	6.1	0.10	m. 65	
Visits	6-12	(671)	3.95 (236)	6.62	(\$0.7)	3 · 7. (26)		
Number of Dental	S - S	22.8" (654)	11.8° (716)	18.17	16.30	7.01	39.5	
Number	C1	19.4° (556)	12.6 (764)	15.0° (338)	18.4	(20)	99	0.000
	r-1	26.67 (762)	20.37 (1234)	18.77			2.3	
	o	74.63 (300)	:5' (2770)	(5) (5) (5)	2.5 2.5	(S. 5)	7 (C)	
	Sent (1985)							

Looking now at the internal cell values, it is erifent that beneficiars class plays a significant role in dental visits. Only 19,4 of the a tire best personnel failed to make at least one visit to the dentist. The remainder of the groups all exhibit greater than 1/3 of their number who fail to make the annual checkup. Except for the fact that active duty personnel show a generally higher proportion of visits in each of the next three categories. (I visit, 2 visits and 3-3 visits), there is little difference between the beneficiary classes. Thus, from 12.4 to 20.3 made one visit, from 12.6 to 19.2 made two visits, and from 10.7 to 19.5 made three to five visits. Interestingly, the proportion of the total sample in each visitation category is very similar also (19.9 one visit, 16.1 two visits, and 16.1 three to five visits). The proportions in the final (high visit) groups vary considerably, but in no set pattern. It might be expected that a similar sample taken for the next year would yield similar aumbers, but nerhaps to different some-ficiary class than was true for this sample.

A final summary of visitation differences is provided in the last column of the Table where average visits by beneficiary class is presented. For call group total visits is divided by the number of individuals in the class to obtain this number. As reflected in previous limites on monass of dentals refacilities, active duty personnel show the highest average visitation. The needents of active duty personnel show the highest average visitation. The high rate roug active duty personnel may be explained in terms of pressure for annual checkups placed on these individuals by the military. The loss are for their dependents are more difficult to explain. One possible explanation is that this group is likely to contain the largest proportion of vanne shildres, age grown left, who exhibit the mighest proportion of no virit individuals.

^{*} this adother subgroup puttern will be discussed in actall be by:

Tables 111.b.? and 111.b.3 show dental biaits by beneficiary class eith geographic location controlled. When contrasting the tables it is evident that individuals in the California sample (Table 111.b.2) were far more likely to go to the dentist than were individuals in the Texas sample (Table 111.b.). The average per year visits was 1.90 in California and 1.32 in 19xas.* This difference is reflected in each of the beneficiary classes where the average number of visits is lower and the proportion of no visit respondents is higher thus ruling out a possible explanation certering around beneficiary ground differences alone within each State. Of particular note is the fact that 37.77 of the active duty military personnel in Texas did not visit a dentist daring the preceding year. This figure represents more than twice the proportion among California respondents showing this behavior pattern. Subsequent analysis based on demographic and economic variables serve to explain part of the difference and will be discussed below.

The average number of visits was calculated by summing I times the number of single visits, 2 times the number of 2-time visits, 4 times the number of 3 to 5 visits, 9 times the number of 6 to 12 visits, and 13 times the number of 13 or more time visitors; then dividing by the total N in that group. This shorthand process was used as a matter of convenience because of the way visits were grouped. While the actual number probably over represents visitation rates because the higher visit categories are likely to have a distribution biased toward the lower end of the range, the relation values are accurate enough to permit valid comparisons of rates between beneficiary classes or geographic locations.

carte [11.2.2: Dental Wisits by Beneficiary Class for California Sample.

			Number of	f Dental	Visits				
Seneficiary Class	0	1	2	3-5	6-12	13 or more	NA.		Average Visits Per Year
Antive Luth Military	16.93)	26.57 (666)	20.47 (511)	23.72	6.77 (168)	2.12 (53)	3.77	100%	2.50
Dependents of Active Cory Military	(2317)	20.63	13.1%	12.3%	4.03 (219)	1.6%	5.62 (304)	1.00%	1.53
	36.3%	13.47	15.5%	18.67 (380)	6.57	1.9% (38)	2.77 (56)	100.	2.06
	(C.E.)	17.05 (703)	19.67 (810)	17.27	4.67	2.07	5.3%	100	1.93
Survivors of Motive Daty	(92) (32)	α	18.97	11.67	5.0%	2.9%	2.9%	1007	1.79
Structures of Contract of Cont	33.97	14.57	19.57	19.87	6.5	2.47	3.57	1002	2.22
	35.0° (5185)	19,0	16.8" (2433)	16.67	5.17	1.9"	(989)		1.90

(acte 111.5.3: Dental Visits by Beneficiary Class for Texas Sample

		Number o	of Dental	Visits					Average
Senctiviary	-		C1	en	6-12	13 or more	VX VX	1	Per Year
(1388)	· ·				î -	29	2.3	1007	
Nacioe Dang	37.7"	27.27.	12.7%	16.4	(11)	(2)	(8)		£C. 1
Dependents of Active Outy	58.9%	13.57	8.67 (56)	7.8% (51)	2,67	.83. (5)	2.8% (18)	1007	1.0.1
Meaning					1	000	1 4	1007	~~~~
Partia Partia	50.57	(32)	10.27	13.0%	(16)	(9)	(3)		1.90
studence.	.3.4	(5.5)	12.67	13.27	2.87	1.1%	5.4.	. 001	1,34
William									
Apprilate forth	53.23 (42)	15.2	8.97	6.33	8.9.7	0 (0)	7.6'	000	3.38
								00	
100 0 400 300 100 0 400 300	40.07	60.007	a () 	o (e)	c (6)	o (O)	o ()		04.
		-		-	1				~~·-
	50.6	19.27	10.7	(200)	3.67		(60)		<u>.</u>
3								i i	

D.2 Dental Care tosts by Beneficiary Class

The second important aspect of dental care is cost. General casts for dental care for the entire sample are presented in Table III.D.A. To prose these data the costs of dental care have been divided into seven paying categories and one tree category. In examining the column totals in later fill.A.A. it can be seen that the sample is relatively evenly divided among the first six categories, i.e., although there is a slight drop the proportion of each category is 62 ±1.5 percentage points. Of the total number who had bent if services, 42% received tree care.

The last two columns in the Table present average cost figures for the total sample (and each group) and for dental service users respectively.*

The average respondent spent about \$43 on dental services for the previous year, while the average user spent almost twice that or about \$93.

The beneficiary class breakdown of these data show interesting differences in cost patterns. Active duty military personnel present an almost no cost group, with 78.7% of the total group obtaining free dental care for the previous year and 2% of the dental care users being required to pay for some part of their dental care. Retired military are second most likely group to receive tree care with 31.7% of the total group receiving no cost treatment and almost half of dental service users not paying. These numbers apparently represent access to and willingness to use military dental facilities. Other groups receive made smaller proportions of free care.

^{*}Again, the means used here are calculated on the basis of vierped lata and are not precisely accurate. For each cost category, except the last, the modepoint number was used to calculate the mean. Thus, in the fileshed toward, 10 was used; in the 52-840 category, 530 was used, etc. The figure of each was used for the final sategory. The resultant averages are probably service high, but certainly not more than 10 became the largest care is an 120-15 to secur in the higher cost categories where there are relatively tower in possest.

laste (111.5.), ost of Pental Care by Beneficiary Class for Total Sample

Mean Cost for Users	ස ද	00. 00. 00.	37.79%		8.00	\$124.10	
Mean cost for all group Members	გი დ <u>ს</u> უ	41.76	339,65	569,02	555,38	874.59	3.5
V VX	.2%	4.87 (290)	.6.	2.8"	1.5.	(4)	
No visits	19.4% (556)	44.5%	37.77	35.67	(220)	2.07	36.7
Free reim- bursed,	78.7% (2254)	15.0%	31.97	7.97	7.03	2.5	(4247)
\$501 or more	(4)	1.87	1.67	3.17	(10)	8.5 (20)	
\$201-	(2)	4.b. (276)	(01)	(327)	(30)	6.0	4.5
\$10: \$200 \$200	F; Ê	(240)	7 (105)	(6.18) (6.18)	5.67	\cdot	(2)
	1.0	(367)	(7e)	6.7			(
1178	.i.(2)	7.4	1. 6 1. 8 1. 8	1.15			6
1100	1.0	166 100			7 O	5.9	
1. O	6.				, <u>-</u>		
Sary Const							

The absence of free military care is reflected in much higher average costs in the non-active duty groups. While costs for dental service users are negligible for active duty personnel, they range from \$64 to \$116 for users in the other groups. The difference is reflected primarily in the availability of free care rather than differences in the distribution of care across the cost categories. Retired military have the highest free service among non-active groups and the lowest per user cost. Survivors of retired military have the lowest free service and the highest per user cost.

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The California and Texas subsamples exhibit substantial differences in costs for dental care. (Tables III.D.5 and III.D.6). For dental care users exclusive active duty personnel the average cost for dental care in Texas was only \$46.75, while the average cost in California was \$96.75. This difference reflects uniform higher usage across all cost categories and it is true in all beneficiary classes as well. Generally, the California respondents are grouped into the higher cost categories. This means that within a given beneficiary group a greater proportion of the California respondents are likely to appear in the higher groups then is true for the fexas sample. It is not clear, from these data, why this should be the case. Perhaps it is that dental costs are generally more expensive in California than in Texas, but there is no available evidence to support that explanation. It would seem unlikely that the California residents would have more or worse dental problems then fex is residents. The fact that more California respondents visit dentiats would not explain the average cost differences either.

Within each subsample there are some significant differences between beneficiary groups, but these differences are set systematic and occur mere frequently in the smaller besselvable smaller besselvable smaller than in the scalifornia at any entire contact of a significant scale of the scalifornia at the scale of th

The III. And The Sector Care by Beneficiary Class (California)

st	Mean Cost	Xe g	57. 888.9 68	30 \$67.32	39 (117.52)	05 \$115.08	55 \$117.48	00 Sub. 75
Mean cost	ior all group Members	Xeg.	% t 2	842.30	\$73.39	\$54.05	\$75.5	09.918
N N	. VA.	.2%	4.97	.6? (13)	2.97	1.37	1.27	2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
	No visits	16.9% (423)	42.87 (2317)	36.3% (741)	34.27 (1412)	46.87	(5)	35.07 (5186)
Free	reim- bursed, no pay	81.4% (2043)	13.7% (739)	32.17	6.2° (255)	6.1% (23)	4.13 (14)	25.27
	\$501 or more	. 2 <i>2</i> (4)	2.0%	1.87 (36)	3.37	2,47	3.5% (12)	2.1. (304)
3.t	\$201- \$500	.17 (2)	5.02 (273)	4.87 (97)	7.47	7.17	6.87	4.97
Cost	\$101- \$200	.13 (3)	4.3%	4.9" (100)	331)	5.37	8.0%	4.87
	\$ 51- \$100	(1)	5.2' (284)	333	0.359)	n.61 1.15)	10.9°	5.5
	84 1 860	; (†)	4.8°	e (5	(5.00)	2.00	10.9.	
	25. 0 t %	. (%)	(CC)	.6.6	(O) [2.0	* ()	1
	1 g	. 9. . 9.	17.6 17.6		7 7	.5.	er Ç	
	Feneficiary Fass	Active outw Military			Team of the second of the seco			V.

and allibert Ost of Dentil Care by Beneficiary Class (Texas)

					Cost	St		Free			Mean Cost	
Beneficiary Tass	1 ~ 7: 4:		11 o o o o	\$61- \$100	\$101- \$200	\$201- \$500	\$501 or more	bursed,	No visits	XX	sroup Members	Mean Cost for Users
Active Cuty Military	ڊ × ۱	1.3	. e.c	.3*	0	0	0	59.8% (211)	37.7% (133)	.67	e.g	ж ээ Х
	iâ.		6.	.6; (9)	.8%	.5%	.3%	26.9% (175)	58.9% (383)	3.57	\$7.37	\$19.63
	· · · · · · · · · · · · · · · · · · ·			4.2.*	2.37	1,4%	O	29.6%	50.5% (109)	Ci	 	529.53
A desired to the control of the cont	(S)		(5.9)	5.97	3.97	4.63	1.3%	13.0% (60)	48.4% (223)	1.7.	838.85	\$77.8
	: £	e û	7. J	. 6 . 6.	3.8	3.8%	1.3%	11.47	53.27	2.57	837.72	\$87.65
9	<u> </u>			0	0	0	0	C	40.0%	0	Tee Sm	Small v
o _t	28	****		9.9	(31)	(60)	.5.	29.47	50.6	2.0'	516.38	\$C

population is unanswerable from the current data, although the uneven nature of the Texas data suggests that it is not a good predictor. However, the conditions which prevail in Texas could be true in other parts of the country as well. In the next section some demographic and economic differences will be investigated to determine if a likely explanation of the differences exists there.

0.3 Dental Visits by Derographic and Leonoric Factors

one economic (income) and three demographic (age, sex, and family composition) variables were used in an attempt to identify differences in dental visits and costs. Thus section describes differences in visits associated with these predictor variables. The following section will describe differences in costs.

Age: The most important difference in dental visits by we in the fact that respondents in the age group 1-12 years all are less likely to have visited a dentist (Table 111.0.7). Forty-nine point five percent of this group had zero visits compared to 29.5% of the 13-19 year olds and 32.8% of the 20 and older group. This difference is probably the result of including children under 5 in this first age group. Thus, it may be expected that older children, say 6-12 year olds, might have a visitation rate approximately equal to that of the adolescents and adults.

The age group pattern extends to both California and Texas subsample. (Tables III.D.8 and III.D.9). In both instances, 1-i2 year olds show lower visitation rates, although, as in previous? discussed results, the table of much higher for the rexas subsample. Are group distributed and experience discussed above.

also. Females are slightly fees likely to have visited a dentiet, 20.0 responding negatively to 30% for males, during the previous year Cliffe III.5. 30.0 outside differences which reflect this 5 difference in attendance, the lift to button of male and tender visites is seen rach a rice. The California and 5 % subsamples demonstrate apertical patterns cutt temps in a refer case.

one illication Sumber of Dental Visits by Age (Total Sample

	} } } †			.umber of Visits				
<u>.</u>		r-4	^ I	3-5	6-12	13+	XX	;-
	10 G	. (C)	12.25 (47.8)	9,8% (385)	3.5% (138)	1.13	5.4%	100° (3931)
1 (C) 1 (C) 1 (C)	1 6	(585)	17.97	15.67	5.83 (163)	4.27 (119)	6.25 (175)	100' (2809)
13.	3	(1661)	17.17	18.87 (1881)	5.2% (525)	1.4%	3.8° (379)	100° (10002)
0.15	w F-		200	1.5%	.7%	0	75.0° (102)	1002 (136)
56.53 (9.185)		0.813)	(6697)	16.03	4.9% (827)	1.8%	5.2° (870)	1007

nate (11.2.5; Yumber of Dental Visits by Age (California)

			Number	Number of Visits				
भूदर	0		5	3–5	6-12	1.3+	NA.	и
77 - AR W	(16.1)	13.97	(2++) (2++)	10.2%	3.5° (124)	1.27	5.62 (197)	100° (3494)
13-13	 (690)	21.03	13.67	16.17 (402)	5.9% (148)	4.72 (117)	6.2% (155)	100%
	32.27	19.87	7.87	19.4"	5.4° (486)	1.4%	3,9% (353)	100% (8942)
	\$ •	. (6)	:0	Ç	8. (E)	9	80.85 (101)	1007
		(1968)	((500))	16.67	5.07	1.97	5.47	1005.

Liste III.... 4: Number of Dentil Visits by Age (Texas)

			Number	Number of Visits				
) () ()	Û	~~	^1	3-5	6-12	13+	19 18	Ж
1	000 100 100 100	14.6	8.2. (35)	6.23 (27)	3.27 (14)	(†)	3.92 (12)	1042 (497)
93-81 51 - Simon	(3.6)	19.67	12.45 (38)	11.4% (35)	4.97 (15)	77.	6.5% (20)	100%
	(2.5)	20.5	(17.7)	13.97	3.71	1.18	2.5. (2b)	(6965)
monom		30	e e	18.2	g .	G.	1.6	200
	50.33	3.00	(195)	11.63	(68)	7.07 (18)	3.5; (64)	

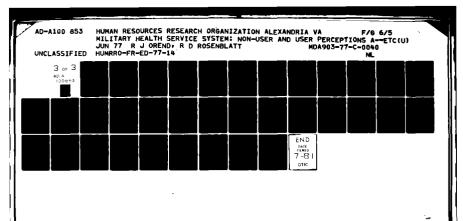


Table III.D.10: Number of Dental Visits by Sex (Total Sample)

			Numbe	r of Visits				
SEX	0	1	2	3-5	6-12	13+	NA	, s
Male	34.0% (2902)	21.4% (1825)	16.0% (1364)	17.2% (1465)	5.2% (447)	1.9% (165)	4.2%	8523
Female	39.5% (3262)	18.0% (1485)	16.1% (1331)	15.0% (1240)	4.6% (380)	1.7% (139)	5.0% (414)	8251
TOTAL	36.7% (6164)	19.7% (3310)	16.1% (2695)	16.1% (2705)	4.9% (827)	1.8%	4.6% (769)	16774

Table III.D.ll: Number of Dental Visits by Sex (California)

			Numbe	er of Visits				
SEX	0	1	2	3-5	5-12	, 13+	NA	, s
Male	32.3% (2445)	21.7% (1641)	16.6% (1258)	17.8% (1346)	5.4% (408)	2.0% (152)	4.3% (324)	7574
Female	38.0% (2805)	17.9% (1325)	16.8% (1242)	15.5% (1148)	4.8% (351)	1.8% (134)	5.2% (381)	7386
TOTAL	35.1% (5250)	19.8% (2966)	16.7% (2500)	16.7% (2494)	5.1% (759)	1.9% (286)	4.7% (705)	14960

fable III.D.12: Number of Dental Visits by Sex (Texas)

	i		Numbe	er of Visits				
SEX	0	1	2	3-5	6-12	13+	NA	2.
Male	48.2% (457)	19.4% (184)	11.2% (106)	12.5%	4.1% (39)	1.4% (13)	3.3% (31)	949
Female	52.8% (457)	18.5% (160)	10.3% (89)	10.6% (92)	3.4% (29)	.6% (5)	3.8% (33)	865
TOTAL	50.4% (914)	19.0% (344)	10.7% (195)	11.6% (211)	3.7% (68)	1.0% (18)	3.5% (64)	1814

slightly less likely to have visited a dentist (Tables III.D.11 and III.D.12). The difference in visitation level between the two states remains, however.

Males and females in Texas are far less likely to have visited a dentist.

Family Composition: Tables III.D.13, III.D.14, and III.D.15 present comparisons of dental visits to number of dependents for the total sample and each of the subsamples. The number of dependents is equal to the number of direct dependents other than the active duty or retired member. Results in this table are for individuals, no families, therefore they indicate the extent to which being in a larger or smaller family predicts a greater or smaller number of dental care visits. Although there is again slight variation around the overall proportion for each dental visit group, the overall differences are small and they exhibit ro fixed pattern. The geographic areas are not different on the family composition dimension and reflect the recurring pattern of greater dental visits in California and less in Texas.

Income: Income and dental visits exhibit a distinct pattern—as income increases the likelihood of not visiting a dentist in the preceding year decreases (Table III.D.16). Over 48% of those who earn \$6,000 or less did not visit a dentist, while only 17% of those who earn \$30,000 to \$39,000 did not visit a dentist. Only the \$40,000+ group breaks this uniform positive correlation between income and dental visits with 21.3% not visiting the dentist. The number of visits to the dentist does not seem to be affected by income differences once the initial visit has been accomplished. The variation in the remaining visitation categories is not substantially different across income groups.

Family Composition (Dependents) by Number of Dental Visits (Total Sample) Table III.D.13:

			Number of	f Visits				
Dependents	0	1	2	3-5	6–12	13+	NA	Z
0	32.7% (373)	19.7% (225)	16.6% (189)	18.8% (215)	6.7% (76)	2.5% (28)	3.1% (35)	1141
1	34.4% (1163)	18.1% (612)	16.2% (547)	18.1% (611)	4.7% (158)	1.5% (50)	7.1% (240)	3381
2	40.7% (1334)	17.73 (579)	15.0% (490)	15.5% (509)	4. 9% (159)	1.6%	4.6% (151)	3276
3	36.2%	20.8% (785)	1 6.7 % (630)	15.9%	4.3% (163)	1.8% (69)	4.3% (161)	3772
ব	34.8% (935)	20.9% (560)	17.8% (478)	14.8% (398)	5.1% (136)	2.1% (56)	4.5% (122)	2685
J	36.1% (516)	21.8%	14.2% (203)	15.3% (219)	5.2% (74)	1.6% (23)	5.7% (81)	1428
6 or more	40.07	20.07	13.0% (158)	13.0% (153)	5.0% (61)	2.0% (24)	7.0%	1195
TOTAL	36.5% (6165)	19.6% (3312)	16.0% (2695)	16.0%	4.9% (827)	1.8%	5.2% (870)	16878

Family Composition (Dependents) by Number of Dental Visits (California) Table III.D.14:

			Number o	Number of Visits				
Dependents	0	1	2	3-5	6-12	13+	NA	N
0	30.8% (303)	19.2% (191)	17.7% (176)	19.8%	7.0%	2.7% (27)	3.3% (33)	266
1	32.9% (1001)	18.0%	16.7% (509)	18.6% (567)	4.9%	1.5%	7.4% (226)	3044
2	38.7% (1098)	17.6% (500)	15.9% (451)	16.5% (467)	4.8% (136)	1.7%	4.8% (137)	2838
3	34.2% (1151)	21.2% (713)	17.4% (587)	16.3% (549)	4.6% (154)	1.9% (63)	4.5% (151)	3368
7	32.7% (776)	21.1% (501)	18.7% (445)	15.3% (364)	5.3% (127)	2.3% (55)	4.5% (107)	2375
Ŋ	35.0% (452)	22.4% (289)	13.7% (177)	15.9% (205)	5.0% (65)	1.7% (22)	6.2% (80)	1290
6 or more	41.0% (470)	20.0% (227)	13.0% (155)	13.0% (145)	5.0% (59)	2.0%	6.0% (72)	1152
TOTAL	34.9Z (5251)	19.7% (2968)	16.6% (2500)	16.6%	5.0% (759)	1.9%	5.4%	15064

Table III.D.15: Family Composition (Dependents) by Number of Dental Visits (Texas)

			Number o	Number of Visits				
Dependents	0	1	2	3-5	6-12	13+	NA	N
0	48.6% (70)	23.6%	9.0% (13)	12.5% (18)	4.2% (6)	.7% (1)	1.4%	144
	48.1% (162)	19.3% (65)	11.3% (38)	13.1% (44)	3.0% (10)	1.2% (4)	4.2% (14)	337
2	53.9% (236)	18.0% (79)	8.9% (39)	9.6% (42)	5.3% (23)	1.1%	3.2%	438
3	52.7% (213)	17.8% (72)	10.6% (43)	12.6% (51)	2.2%	1.5%	2.5% (10)	707
\ 7	51.3% (159)	1 9. 0% (59)	10.6% (33)	11.0% (34)	2.9%	.3%	4.8% (15)	310
2	74°97 74°9)	16.7% (23)	18.8% (26)	10.3% (14)	6.5% (9)	.7% (1)	.7%	138
6 or more	23.0% (10)	28.0% (12)	7.0%	19.0% (8)	5.0% (2)	0	19.0% (8)	43
TOTAL	50.42	19.0% (344)	10.7% (195)	11.62 (211)	3.7%	1.0%	3.5%	1814

Table III.D.16: Dental Visits by Family Income (Total Sample)

				Number	Number of Dental Vasits	iseite		
Family Income	None	1	2	, 3-5	6-12	13+	ΧΑ	Totaí
less than 5K	78°32 (626)	15.18	11.87	13.5%	4.5% (90)	1.62	5.1% (102)	2014
) 	45.1 (947)	18.3 (385)	11.9	14.6 (306)	3.9 (81)	(23)	5.1 (108)	2099
8-10K	41.1 (1041)	20.9 (530)	13.4 (340)	13.0 (328)	2.6 (116)	1.4 (35)	5.6 (142)	2532
10-15K	37.3 (1752)	20.6 (568)	15.0 (705)	15.4 (724)	4.7 (221)	1.6 (75)	5.3 (250)	7695
15-23K	33.2 (829)	20.5 (5-3)	19.6 (538)	16.6 (456)	5.5 (150)	2.3	5.4 (148)	27:7
X5 = 52	23.4 (326)	20.4 (231)	22.2 (310)	21.2 (296)	5.5	3.0 (42)	3.8 (53)	1395
25-30%	19.8 (126)	19,3 (123)	23.5 (142)	8.0 (150)	8.0 (51)	1.6 (10)	5.5 (35)	637
30-29%	17.0	21.2	26.1 (118)	22.3 (101)	6.6 (30)	3.1 (14)	3.5 (16)	152
¥ +01	21.3 (35)	18.9	18.3 (30)	29.3 (48)	4.3 (7)	4.3	3.7	164
34	41.3 (59)	13.3 (19)	17.5 (25)	16.8 (24)	2.8 (4)	1.4 (2)	7.0	143
[cta]	36.5 (6165)	19.6 (3312)	16.0 (2695)	16.0	4.9 (827)	1.8	5.2 (870)	16878

Both California and Texas subsamples show approximately the same pattern in the relationship of income and dental visits (Tables III.D.17 and III.D.18). While the same pattern exists, the distribution of income groups within regions helps to explain previously discussed differences in dental visits. The right hand total column of each Table shows the distributions for income groups. These distributions reflect a much lower general income level in the Texas subsample than in the California subsample. If, as seems to be demonstrated in Table III.D.16, income is a factor in the decision to visit a dentist, then the fact that those living in California are more likely to visit a dentist is at least partially explained by the difference in income between the two areas.

Cost differences, however, are not explained. Nor is the counterargument that the proportion of income used in Texas is no greater than the proportion used in California. The reason for income distribution differences in the two samples may be a function of: (1) the rank of active duty personnel stationed in the two areas; (2) the rank of retired personnel living in those areas; and/or (3) the kinds of jobs available to retired and dependent personnel in those areas.

A further confounding factor in the analysis of income as a predictor of dental visits is that income is usually strongly related to education level. If the observed result were simply the result of an education/dental visit relationship, the list of possible explanations would vary greatly. In that case one might offer a common sense argument that better educated personnel are likely to consider the implications of failure to make regular dental visits

Further investigation of this question will be described below when dental visits and income are compared while controlling for beneficiary class.

Table III.D.17: Dental Visits by Family Income (California Sample)

				Tadmin	Number of Dental Visits	/Jrite		
Family Income	None	1	2	3-5	6-12	13+	X.A	Total
Less than 6%	46.17 (771)	14.58 (242)	12.47 (268)	14.5% (243)	4.8% (81)	i.9% (32)	5.8% (97)	1674
6-8%	42.6 (766)	18.6 (334)	12.7 (229)	15.2 (273)	4.1 (73)	1.2 (22)	5.7 (102)	1799
3-10K	3915 (880	21.4 (476)	14.1 (314)	13.4 (298)	4.5 (730)	1.3 (28)	5.9	2228
10-15%	36.3 (1499)	20.7 (858)	15.2 (629)	15.9 (653)	4.8 (198)	1.7	5.4 (224)	4135
15-20%	29.4 (754)	20.5 (526)	20.1 (515)	16.7 (248)	5.6 (144)	2.3	5.5 (141)	2568
20-25%	23.2 (308)	21.0 (278)	22.4 (297)	20.9	5.6 (74)	3.2 (42)	3.8 (50)	1326
25-30K	19.3 (118)	19.5	22.7 (139)	23.9 (146)	8.2 (50)	1.6	(62) (63)	611
35-39K	17.0 (75)	26.0 (88)	26.8 (118)	22.7 (100)	6.6 (29)	3.2 (14)	3.6 (16)	077
X +07	21.1	18.0 (29)	13.0	29.8 (48)	4.3	4.3	3.7 (6)	161
NA.	37.7	14.8 (18)	17.2 (21)	18.9 (23)	2.5	1.6 (2)	7.7	122
Total	34.9 (5251)	19.7 (2968)	16.6 (2500)	16.6 (2494)	5.0 (759)	1.9 (286)	5.4 (806)	15064

Table III.D.18;Dental Visits by Family Income (Texas Sample)

				Samber	of Dental Visits	/asite		
Fanily Income	None	,-4	2	3-5	6-12	13+	55	Total
Less than 6K	\$7.40 (3/2)	18.38 (64)	8.8° (3))	8,57 (24)	2.63	.s. D	1.5%	340
5-3K	C. 3 (131)	(17.7	6.7 (20)	11.0	2.7	.3	2.5	300
8-10%	53.0 (161)	17.8	8.6 (26)	6.0	5.3 (16)	2.3	3.3 (10)	304
19-158	45.2	19.6 (217)	13.6 (76)	11.8	4.1 (23)	1.1 (6)	4.6 (26)	560
15-20K	41.9 (75)	(37)	12.8 (23)	15.6	3.4	1.7	3.9	179
20 - 25K	25.1 (13)	18.8 (13)	18.8	27.5 (19)	4.3	0	4.3	69
25-3CK	30.4 (8)	15.4	11.5	15.4	3.8 (1)	0	23.1	2.6
30-39%	16.7	(8)	3	8.3 (1)	8.3	О	0	12
× +63	:3.3 (1)	66.7	0	<u> </u>	5	0	0	m
W.	61.9 (13)	4.8	19.0	4.8 (1)	4,× (1)	0	4.8	21
Total	50.4 (914)	19.0	10.7 (195)	11.6	3.7	1.0	3.5 (64)	1814

D.4 Dental Costs by Demographic and Economic Factors

Age: Cost by age differences are shown in Tables III.D.19 through III.D.21. In Table III.D.19 there are two interesting differences exhibited. First, the proportion of free or no pay visits increases with age. One to 12 year olds have virtually no free visits, the 13-19 year old group has 16% free visits and the 20 and older group has 34% free visits. These figures reflect the proportion of active duty personnel in each sample and this question will be examined below. Second, older respondents who paid for their dental visits tended to have somewhat more costly visits than younger respondents. This was less true of the differences between 13-19 year olds and the 20 and over group than it was between the 1-12 year olds and both older groups. The crossover point is approximately in the \$40-60 range. Up to that point a greater proportion of the voungest group is in evidence (52% of the first two categories compared to 41% to 35% respectively for the older groups), while after that point the older groups are clustered (35% of the 1-12 year-olds in the most costly four groups and 51° of the 20-99 year olds in that same range). These differences are probably a function of the fact that dental procedures generally become more complicated beginning in the teen-age years.

Both the California and Texas subsamples exhibit approximately the same pattern, the exception being an unusually large number of free and no pay children in the Texas Group (Tables 111.D.20 and 111.D.21). This exception could be the result of a special program or on-post facilities which are more accessible to this age group in the Texas location.*

^{*} Also, it could be the result of sampling error in this relatively small group.

Table III.0.19: Sental Costs by Age (Total Sample)

		Ţ	Ţ		
ी. इंड	3931	2839	10002	136	16878
W.	5, ** (193)	(129)	(135)	(303)	3 (560)
No	505 8 * (1946)	29 (826)	34 (3376)	(17)	37 (6165)
Proc or No Pay	(9)	16 (448)	34 (3371)	(9)	25 (4267)
Total Tan Incurred Cats	947 (1354)	1505 (1456)	1692 (3120)	10ns (1.0)	1993 (5890)
+ 	(33)	(66)	(300)		(323)
1 24 24 25 25	(123)	13	15 (4.7.5)		3.5
1 (4) (5) (4) (4) (5)	101.*	13 (182)	12. (437)	ą ()	(7.7)
\$62 \$135	140* (188)	16 (215)	15 (431)	0	
1 - (4 - 1) - (4 - 1) - (7 - 1)	*255 (161)	11 (35)	(5(1))		13
3 3 3 9 9	235%	(390)	(333)	(5)	(3195)
1	* 6	23,	(3.13)	20	2)
20 20 41	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			2000	- t a +

* = of total is arring costs

** However the total and controllery

Table III.D.20: Dental Costo by Age (Galifornia Sumple)

٠. د د	3-5-5	25.33	2563	125	1 40 -0 -0 -1
# # # # # # # # # # # # # # # # # # #	5.28 (181)	(318)	10000	700	(523)
) :4 :) :4 :> :4 :2 :3	4%, 48d (1671)	(((6/2))	32 (2578)	10 (2.2)	35 (1221)
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	10,88 (35.0)	(3%1)	(8013)	(5)	25 (3743)
	15.75	(5.10)	(6.78)	1605, (8)	1000 (5543)
+ 11 22	*:3	(3.5)		3	(113)
	(27)	(65)	(8(5))	3	(32)
\$20.	(197)	(691)		(2)	(729)
2.2.5	47.8 07.0	(693)	(::)		(%)
1	*(*(*)				310
\$ 100	(6-6-7) * 711	(20)		38 (3)	(e.i.)
1 (4) (4) (5)	23.8				(3.00)
1. 10 10 11	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			### ### ### ### ### ### ### ### ### ##	-3

* 3 of total incurring costs
** 3 of total in category

 		, 	7		
	• •	<i>\$</i>	1060	7	1817
4	37.8%	(21)	17.	(1)	27 (37)
	63°** (275)	447 (136)	472 (498)	(5)	50%
	22.7**	22% (67)	33%	(3)	29% (519)
	1017	1007	1 <i>007</i> (197)	100% (2)	99% (343)
	53	3%	3% (6)	0	32 (10)
	(3)	132 (12)	107 (20)	0	107
1 5	6.7 (3.)	147 (13)	8% (16)	0	97. (32)
	17.7	(9)	187	507	157 (52)
	(j) (j)	87 (7)	14° (28)	50% (1)	117.
	37.° (19)	25.	187 (35)	C	22% (77)
	27 <i>2</i> (14)	307	297 (56)	()	29 <i>7</i> (98)
	14 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	61-61 61-61 61-61	27-99 Cars 01d	Unknown	.ctal
	•	30			

* Percent of total incurring costs.

** Persent of total in category.

Sex: On the total sample and both subsamples the primary difference between men and women is the availability of free care. The males, primarily active duty, have free care available and are much more likely to use it (38% to 12% in the total sample). Otherwise costs are much the same for men and women. The slight difference between the two groups in the \$1 - \$20 category probably reflects the annual check-up which women must pay for and active duty men receive free. These results are shown in Tables III.D.22 through III.D.24.

Family Composition: Respondents with no dependents are most likely to obtain free or no pay dental care (45% in the total sample). (See Table III.D.25.)

Among the remaining dependent groups there is little difference in obtaining free care. A slight tendency for those with more dependents to fall into the smallest payment category exists, also, but this trend is broken in the six or more dependent category. Beyond these minor differences there are no systematic differences on family composition and cost for the total sample.

The California subsample shows an almost identical pattern (Table III.D.26). The Texas subsample, on the other hand, reverses the Free and No Fav trend (Table III.D.27). Among those beneficiaries living in Texas the trend is toward increased free care as the number of dependents increases. Elsewhere on this table the pattern is less regular than for the California subsample. This is similar to the outcomes on other variables and may reflect sampling error or the peculiarities of the restricted population used for the survey.

Income: The relationship between family income and number of visits has already been discussed. In Table III.D.28 some additional information is presented. Generally, as income goes up the proportion of free and no pay visits goes down. However, in the remainder of the Table similar relationships between the amount of money carned and the amount paid for dentist bills do not

Table III.9.22: Dental Costs by Sex (Total Sarato)

(4 (1) (1) (4)	3 34 34	10 12	\$229.7
4	4x20		5 (454) 10774
7. 20. 44 20. 44 20. 44 20. 44	02076) (00912) (075), 5023	5.3	57 (c,164)
9 34 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(97.76)	(_{Z_{i}^{*}})	5.00
11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	1. 2		
100			
			(34.)
,	(1) (1) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4		176.1
	7 G		(7.1)
1	* ((56.1)
	6		14 14 15 15 15 15 15 15 15 15 15 15 15 15 15
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* % officese who incurred costs
** Totalitate Transfer

Table III.D.23Dental (ost by Sex (California Sarple)

(+ ;) ;;	10 10 10 1	13 m	14960
	(C)	(255)	(422)
No Tistts	** 7° ((***)	58 (2815)	35 (5250)
Free or No Pay	3-1/x* 52 x* -2445) (2445)	(500)	25 (3743)
73 % 7 % % 7 % % 1	(7.13)	(3123)	(5:15) (0:15)
	* ()	(3.5)	(::3)
:			1 2 3
1 2			
6.6.5	* 1		(2(2)
100	1 5 × ()		
1 1 1	*	(74.3)	(3337)
1	*		10.7
Sex	Xů.	5.55.5	Total

Table III.0.24: Sectod of store Sea (Texas Lample)

					-	-					-
1				1	1	† 2		Proc or No Pay	No Visits	沒	Total
			*3		Age of the second	* *	7.67 (3.63)	35.**	453** ((*:1)	3° '' ''
	17.	(5.5)	.: 5	* :)	2.3			(1.87)	53 (457)	(23)	2.5
(36)	22	.:	15	- 1	20	3 (1.1)	(\$**; ·	(78) 68	50 (914)	(37)	1814

* I of those who is prodeconse

* % of total % in Group

Fable III.0.25: Dental Costs by Family Composition (Total Sample)

Total	1141	3381	3276	3772	2685	1428	1195	16878
XX	12*** (8)	52 (166)	3% (96)	2% (84)	3% (77)	42 (61)	(89)	37 (560)
No Visits	332** (373)	347 (1163)	41% (1334)	36% (1364)	35% (935)	36% (516)	40%	37g (6163)
Free or No Pay	45%**	26% (891)	24% (799)	24% (887)	22% (600)	23% (327)	21% (247)	25° (4263)
Total Mho Incurred Costs	100% (248)	100% (1161)	100% (1047)	100% (1437)	100 <i>7</i> (1073)	100% (524)	1012 (390)	1002 (5880)
\$501 +	6%* (16)	72 (82.)	67 (58)	5% (76)	گر (51)	3.7 (15)	67. (23)	5% (321)
\$201- \$500	18%*	15% (173)	137 (140)	12% (170)	11%	147 (72)	14.7	14 <i>8</i> (773)
\$101- \$200	10% (26)	16% (180)	15% (156)	13% (182)	10%	(55)	15% (58)	132
\$61-	142* (34)	15% (178)	157.	14% (203)	177. (181)	147 (72)	15." (60)	157 (336)
\$41- \$60	147*	145 (161)	13° (131).	137 (183)	137 (140)	11 <i>?</i> (58)	13% (52)	137 (759)
\$21-	207.*	203	20% (209)	(313)	212	(87)	18°	20%
\$1- \$20	17.*	147. (158)	193)	335)	24.2	31.	5.5	. 20.1 (11/45)
Number of Descents	euo::	H	2	e.	. ;	1/)	9202 20 9	18:01

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Table III.9.20: Dental Costs by Family Composition (California)

Total	. 266	304+	2838	3368	2375	1290	1152	15064
, , ,	1.**	57,	3 (85)	30)	3.	5.	53 (62)	47 (523)
V N O V S T S	30"**	337 (1001)	39? (1 098)	34" (1151)	33 ⁷ (776)	35° (452)	41%	35? (5271)
Free or No bay	462**	262 (796)	2 5% (703)	23.7 (772)	21 <i>?</i> (509)	22 % (280)	19% (224)	257 (3743)
Total Mao Incurred Cests	1007*	1 <i>902</i> (1089)	100% (952)	1002 (1365)	1017	100% (497)	100% (396)	37"
+ 1058	7.* (16)	7% (80)	5% (52)	\$? (74)	5. (51)	37 (15)	6% (23)	(311)
\$201- \$500	19%* (42)	15% (165)	(131)	12% (164)	(112)	14" (70)	14 (54)	137
\$101-	11"* (25)	16% (171)	:57 (145)	132 (177)	102 (100)	(54)	142 (57)	13.
\$61- \$100	12%*	157 (164)	147. (143)	147 (194)	(123)	(72)	157 (60)	(334)
	15% (33)	14:	128	137 (173)	147	(54)		13° (720)
\$21-	50.* (+6)	20.	207 (195)	22.	236)	i.6 (73)	6. 0.	
\$1- \$20	16**	13:	13.	(282)	2.5	317	81	
Number of Desendents	© ::	r-1	c1	6	. ,	10	0.00 ± 0.00 €	Total

A compared to the second correction of the

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Table III.D.27: Dental Costs by Family Composition (Texas)

Total	144	337	438	† 0 †	310	138	43	1814
%A	0	2%	3% (11)	1% (4)	3% (8)	0	14% (6)	2% (37)
No Visits	(02) **267	48% (162)	54% (236)	53% (213)	51% (159)	(+9)	23% (10)	50% (914)
Free or No Pay	37%** (53)	28% (95)	22%	29% (115)	29% (91)	34% (47)	54% (23)	29% (520)
Total Mno Incurred Costs	101%*	160%	100%	1012 (72)	100% (52)	1002 (27)	100%	99% (343)
\$501 +	0	3% (2)	(9)	3% (2)	0	0	0	3% (10)
\$201-	14%*	11%	(6)	8% (9)	13.7	7% (2)	0	107. (35)
\$101- \$200	5%* (1)	13%	127 (11)	7.7 (5)	8.7(4)	42 (1)	25% (1)	9% (32)
\$51- \$100	29%* (6)	19%	16 <i>ž</i> (15)	13%	157 (8)	0	О	15" (52)
	5°* (1)	157	17% (16)	(+)	4.7 (2)	15%	25% (1)	(39)
\$21-	19:* (4)	14% (10)	15% (14)	32" (23)	29° (15)	33.7	50° (2)	227
\$1- \$20	297* (6)	25% (18)	250 (24)	32° (23)	31 ° (16)	41 (11)	Û	29° (98)
Number of Desendents	euo::		2	m	-1	เก	5 or more	# 4 합 47 0 [1

* Persent of those who incurred costs.

** Percent of total N in group.

Table III.D.28: Dental Costs by Family Income (Total Sample)

F=11y income	-7%	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	\$42- 663	361- 8:00	\$101- \$200	\$201- \$500	+ 7058	Total Mayo Incurred Costs	Free or No Pay	No. Visits	χχ	Total
Less than 6K	# 12.		(70)	157.8	(23)	(98)	(33)	1412 (2n3)	342** (693)	48%** (673)	(\$5) **J7	77.00
6-8%	2. 7 (3.13)		12 (52)	12 (53)	11 (4.8)	11.	(81)	1635 (426)	31 (646)	45 (947)	(8)	6502
3-10X	(33)	25	(56)	15 (102)	2.3 (89)	17 (90)	(99.) 7	992 (674)	29 (731)	41 (1041)	(36)	2532
10-15%	25 (332)	29 (3.52)	1.5 (240)	15 (248)	14 (229)	(196)	(83)	100% (1659)	(2005)	37 (1752)	(179)	4635
15-20K	(252)	23 (2.51)	12 (159)	15 (192)	13 (154)	14 (171)	(62)	1507 (1248)	22 (595)	(629)	(75)	2747
X57+01	(161)	(171)	15 (118)	(1:1)	(91)	(1.2)	6 (51)	99% (795)	18 (25a)	23	(24)	1395
25-3.8	(94) 12	2.5	(51)	14 (5.8)	13	12 (5.1)	7 (25)	1012	20 (126)	20 (226)	(55)	537
M C C	17 (53)	3 Ê	(27)	(3.0)	16 (55)	(67) ?:	5 (14)	100% (287)	17 (77)	17 (77)	(11)	452
м +С;	617)	9.	$x \in \mathcal{E}$	27 (29)	15 (16)	(9)	3 (3)	100% (106)	14 (23)	21 (35)	0	164
* \$	(e) 	24		13	(5)	29	φ (ξ)	1800 (62)	12 (C.7.)	41 (59)	3 (5)	143
-0 tal	25 (0.195)	(195)	(775)	(336)	13	(773)	(321)	35 (5890)	25 (4263)	37 (6165)	3 (346)	16878

* = 2 of those who incurred costs, ** = 2 of total N in group

predict the amount of dental work required or its cost.

The above findings are generally supported in each State subsample, although it should be noted that the Texas subsample is quite erratic (Tables III.D.29 and III.D.30). This may be explained by the large number of cells and relatively small cell values found in this Table.

The preceding descriptions have demonstrated relationships between dental service cost and age, cost and sex, cost and family composition, and cost and income. These relationships have centered primarily around the use of free or no pay care and suggest that a crucial intervening variable may be beneficiary class (particularly active duty status). In the analysis of visitation relationships between dental visitation and age, and visitation and income were described. In the following section of the report these positive relationships will be examined in somewhat greater detail.

D.5 Dental Visits and Cost by Demographic and Economic Factors Controlling for Beneficiary Class and Geographic Area

The analyses performed for this section included an examination of the impact of each demographic and economic variable on dental visition and cost while controlling for membership in beneficiary class and State of residence. In order to provide a more parsimonious presentation only those results found to be significant will be presented. Any particular interaction not discussed may be assumed to exhibit no relationship. Particular attention will be paid to those positive findings discussed in the previous sections.

Sex: Controlling for beneficiary class brought no changes in the absence of a relationship between sex and dental visits. It appears that soing to the dentist is not a sex linked characteristic. Likewise, the cost of dental care for those who paid is not related to sex. The previously discussed

Table III, D, 29: Dental Costs by Family income (Galifornia)

Family Income	522 C23	- C: :	- 52 8 - 58 8	\$61-	\$201- \$200	\$201- \$500	+ 1058	Total Vão Incurred Costs	Free or No Pay	No Visits	¥.	Total
Less than 6X	* ,.	3 6	- 8.7. T	***: (10)	10.00 (60.00)	17.8	52% (12)	100. (234)	353## (587)	452**	52.8	1674
NS-9		11 (10)	23	(30)	(5.5)	7.5 (5.5)	(17)	1975 (3°2)	32 (549)	43 (766)	(72)	1799
3-10X	0.00 (10.00)	2:	(77)	25	(34)	24 (85)	2 (72)	100	28 (633)	39 (880)	(81)	2228
10 -15 K		(2)(1)	(527)	.5 (229)	13.	12 (184)	5 (77)	100, (1514)	23 (554)	36 (1499)	(168)	4135
15-20K	(25:)	27.	(3.8)	(134)	:2 (140)	24 (167)	6 (76)	58% (1204)	21 (539)	29 (754)	3 (71)	2468
20 - 25k	(<u>;</u>	2.)	(6115)	, (13	(51)	(764)	17 (230)	23 (309)	(24)	1326
25-35%		22 (31)	7.0	(70)		(4.3)	(25)	. (Se3)	26 (320)	20 (118)	2 (10)	611
53 -39 K	(25)	(45)	.20 (27)	:3 (55)	.e. (5.5)	17 (4.8)	5 (5.5)	75,43 (279)	17 (75)	17 (75)	3 (11)	077
м +	72.022	13 (10)	ه (٦)	28 (29)	(36)	(6)	4 (8)	100% (304)	14 (23)	21 (34)	C	161
XA	ar v	2.),u (65)	13.	, , , , , , , , , , , , , , , , , , ,	27		947. (59)	: E	38 (46)	3 (7)	122
Total	35.73	(9::::)	1. (720)	15	13 (729)	13 (738)	9	37 (55.6)	25 (3743)	35 (5251)	(523)	25064

* = 1 of those was incurred costs, ** = 2 of total 3 in Sroup

Table III.D.30: Dental Costs by Fomily Income (Texas Sample)

Total	0.7 7	3.5	98	999	1.79	k)	:5			ri	† 18 ±
Ø	1 (S)	(3)	2	7.3	(1)	0	15 (5)	C	0	(3)	(3.5)
No	592** (181)	60 (181)	53 (161)	15 (253)	42 (75)	26 (3.8)	31 (8)	17 (2)	33	62	88
Free or No Per	317.4%	2.6 (7.7)	32 (9.8)	27.	31 (56)	23 (20)	23 (6)	17 (2)	c	3.6	29 (5.20)
Total Vio Incurred Cests	1865 (34)	3.61	1960 (45.)	26.7 G 55.7	1003	949 (33)	(7)	1700	1607 (2)	39.1	(2:5)
+ 7058	0 (1)	s 3	3)	2, (3)	(7)	0	0	9	0	=	3 (3.9)
\$201- \$500	1028	(4)	57	(12)	9	5.5	2.0	123		(2)	16 (35)
\$101- \$200	100	(3)	12.5)	8 (11)	14 (6)	(5)	29 (2)	S	0	0	(7) 5(8)
\$51- \$130	28 (8)	6)	87	90 90	18 (8)	16 (5)	17	12 (1)	5	C	15 (52)
\$41- \$60	(7) #52	9 (5)	12 (5)	7. (6)	7::7	(2)	9		t.	5	(69)
\$21-	2. * (7)			3.	(:)	(2)	73) (3)	33	0	0	(77)
\$17- \$20	*,©	17)	62	\$ 10 \$ 10 \$ 10 \$ 10 \$ 10 \$ 10 \$ 10 \$ 10	6.	55	9	28.	168. (27)	23	Q.
Funity	Lass than 6K	25.5	8-10X	547 140 140 141	15-20K	20-25K	25-50K	30-39K	<u>ا</u> بارځ	W.	Total

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relationship between sex and obtaining free dental service, is as expected, explained by the preponderance of males in the active duty and retired categories. Table 111.D.31 shows that where males and females are in the same beneficiary class there is little difference in their ability to obtain free dental service. In fact, temales may have a slightly higher rate than males within classes.

Age: The explanation offered for fewer visits among children under 1) (that those under 5 have very few dental visits) is neither confirmed nor dispressen by findings in the controlled analysis. The explanation seems supported by figures among active duty dependents and retired mulitary dependents. In the former group the absence of dental visits is greater in the 1-12 year old group than in any other group. In the latter group where the incidence of young children may be expected to be lower, the 1-12 group shows less tendency to fail to visit a dentist (Table MILD.32). However, among both survivor groups this trend is reversed and the adalt group is less likely to have gone to the dentist during the preceding year. It is possible that among the survivor groups there is a significant number of older people who are essentially beyond regular dental care (e.g., those with false teeth, etc.).

The previous conjecture that the number of free visits to the dentist reflected the difference between active and non-active duty status rather than a real age difference is confirmed by data in Table 111.0.33.

A final earlier finding on cost and age suggested that a preator cost is positively associated with age. A beneficiary class by beneficiary class examination shows this to be true only among dependents of active duty personnel, and even here the relationship is not a strong one. There is no indication

Table 111.0.31: Use of Free Dental Care by Sex (Controlling for Beneficiary Class)

Beneficiary Class	So Male	ex Female
Active Duty Military	78.6** (2195)	86.37 (63)
Dependents of Active Duty Military	14.1% (267)	15.5° (647)
Retired Military	31.6 ° (699)	45.3° (19)
Dependents of Retired Military	7.3 (99)	6.6° (216)
Survivors of Active Duty Military	7.0°′ (7)	7.0° (.5)
Survivors of Retired Militimy	1.5° (1)	4.77

^{*} Figures are the proportion of the group obtaining free or no pay dental care.

Table 111.0.32: Dental Visits and Age (Controlling for Beneticiary Class)

Beneficiary		Age	- -
Class	1-12	13-19	20-99
Dependents of Active Duty Military	53.33* (1604)	30.7% (303)	38.27 (782)
Dependents of Retired Military	36.7% (293)	30.2% (444)	38.6 (894)
Survivors of Active Duty Military	42.3% (33)	21.8%	56.1° (170)
Survivors of Retired Military	32.1% (9)	20.3	39.0° (92)

^{*} Figures represent proportion of group that did not visit a dentist during the previous year.

Take 111.0.30; October 50 No. Age (Controlling for Beneficiary Class)

		Age	
weneffeiary (Tass	1-12	13-19	20-99
i tyve kath Military	none	78.37* (126)	78.8 (2128)
Dependents of Litive Duty Military	12.17 (363)	20.0 (197)	16.9% (347)
Petitei Military	none	none	31,97 (718)
erendents : .etired "Elitery	7.a: (63)	7.7% (113)	5.9° (138)
Sarvicers of Setave Auto Militari	11.5	10.37	4.9% (15)
urvicers et etired Military	3.6	6.3° (5)	.8° (2)

^{*} Figure represents proportion of group which had free tental service Juring provious year.

to explain why this phenomenon should exist in this group within the data available for this analysis. A safe conclusion might be that there is no real relationship.

Family Composition: The earlier finding of a positive relationship between the number of dependents and use of free dental care again washes out when beneficiary class is controlled. The presence of active duty personnel, who are far more likely to be single, explains why zero dependent individuals were more likely to obtain free dental care. In fact, an opposite trend is revealed among Dependents of Active Duty Military and Dependents of Retired Military (Table 111.D.34). In these groups there seems to be a slight tendency to take advantage of free service. Of course, this trend is opeating on a much higher level among active duty dependents than among retiree dependents.

Family Income: The trend for those with smaller incomes to stay away from dentists is reflected in all beneficiary groups to a greater or lesser degree. Even among active duty personnel (the group least likely to miss at least one annual dental visit and the group which rust bear the least cost for that visit), the tendency remains strong. This reenforces an earlier contention that income, in this instance, is a substitute for education (in a general sense) and that a lack of education is reflected in a lack of understanding or information on the benefits of annual dental checkups.

Finally, any tendency for increased use of free dental service with increased income is completely absent for the individual beneficiary groups. For each group there are different free service usage rates but within groups there exist virtually straight lines across income levels.

Dental Costs and Family Composition (Controlling for Beneficiary Class) Table III.5.34:

Second Colors				Number	Number of Dependents	lents				10
Class	P~4	2	3	7	5	9	7	œ	6	or more
Dependents of Active Military		!3.9% (168)	13.57 (222)	15.4% (201)	17.8%	17.5%	19.97	20.07 (3)	38.98	
Rependents of Setired Military	5.7.7	4.87	7.27 (80)	7.4% (59)	8.8	10.7% (20)	11.67	1	2.87	3.57

* Figure repr - its the proportion using free dental scrutce among all grap members.

This completes the description of dental service usage among California and Texas residents. The discussion of the influence of demographic and economic variables upon both frequency of dental care and cost of dental care while controlling for beneficiary class has reduced the number of relevant variables to a select few: beneficiary class (particularly active vs. non-active differences) and income-education are the most prominant of these. Differences in geographic area seem related to the above factors as well.

The final testing did not include geographic differences because the Texas sample proved too small for many of the large tables used in the description when beneficiary class was controlled as well. In addition, since the California sample was so large, it reflected the total results and made separate analysis redundant.

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Jamily User Type by Comparison of Military and Civilian Facilities Table A.3:

Summary Scores**

	Civil	Civilian Better	ıer		Mi.1	Military Better	Setter	
[ser Type	r 1	~	·†	ıC	9	7	œ	Total
Direct Only	(GD)	8.67 (231)	75.87	1.4%	12.83 (343)	0.15	0.87	2688
CHAMPUS Only	0.9? (2)	8.97	83.87	0.4 <i>%</i> (1)	5.1% (12)	(0) 30°0	0.9%	235
Both Direct and ChMPUS	(0)	9,77	80,33 (363)	2.2% (10)	7,5%	0.07	0.2%	
Civilian Only	(6)	7.72	82.12 (1904)	0,92 (22)	8,2% (139)	0.13	0.6%	2318
Fnknown								1
							Total	5694

^{*}Combination of the pariables: Military vs. Civilian (1) Hospital Plant; and (2) Arbiance.

sevres equal sum of lores on each item in scale. All l's m perfect civilian scare; all l's m perfect military score.

Table A.4: Course over any contract and contract and the contract and

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